

December 3, 2007

Ms. Elizabeth Miller Jennings, Senior Staff Counsel State Water Resources Control Board Office of General Counsel P.O. Box 100 Sacramento, CA 95812-0100

Sent via email to jbashaw@waterboards.ca.gov

RE: Petition for Review of Waste Discharge Requirements for Municipal and Industrial Wastewater Discharges of Mercury to San Francisco Bay, R2-2007-0077 (NPDES No. CA0038849)

Dear Ms. Jennings and State Water Resources Control Board:

San Francisco Baykeeper ("Baykeeper") hereby petitions the State Water Resources Control Board ("State Board") for review of the California Regional Water Quality Control Board, San Francisco Bay Region ("Regional Board") order adopting Waste Discharge Requirements for Municipal and Industrial Wastewater Discharges of Mercury to San Francisco Bay, R2-2007-0077 (NPDES No. CA0038849) (the "Permit"). As issued by the Regional Board, the Permit conflicts with the Clean Water Act ("CWA") because it lacks individually enforceable mass limits as required by applicable federal regulations, inappropriately relaxes numerous effluent limitations, contains inappropriate compliance schedules and fails to require adequate monitoring.

A copy of this Petition has been sent to the Regional Board and to those Dischargers subject to the Permit.

#### I. Petitioner

Petitioner Baykeeper is a regional non-profit public benefit corporation organized under the laws of the State of California. Baykeeper's mission is to protect and enhance the water quality of the San Francisco Bay and Delta for the benefit of their ecosystems and human



communities. Baykeeper strives to protect the Bay and Delta by investigating pollution problems and bringing enforcement actions against polluters directly when necessary. Baykeeper's office is located at 785 Market Street, Suite 805 in San Francisco, California, 94103.

### II. Action for Which Review is Sought and Associated Date of Action

Baykeeper requests review of the Regional Board's November 1, 2007 order adopting the Permit, a copy of which is appended hereto as Exhibit A.

Baykeeper has previously raised and presented all the issues addressed in this Petition in comment letters submitted to the Regional Board on April 16, 2007 and on September 13, 2007; these letters are attached to this Petition as Exhibits B and C respectively. Baykeeper also raised and presented these issues in live oral testimony at the November 1, 2007 public hearing at which the Regional Board adopted the Permit.

### III. Reasons that the Action is Improper

This Permit establishes limitations and requirements on the discharge of mercury from more than 60 NPDES permittees who cumulatively discharge over 600 million gallons per day of treated wastewater directly to San Francisco Bay. It is one of the primary implementation measures required by the Total Maximum Daily Load ("TMDL") for Mercury in the San Francisco Bay, adopted by the Regional Board in August 2006 and approved by this State Board on July 17, 2007. Water Quality Control Plan for the San Francisco Bay Region to Establish New Mercury Water Quality Objectives and Total Maximum Daily Load and Implementation Plan for Mercury in San Francisco Bay, Order No. R2-2006-0052 (August 9, 2006) ("Bay Mercury TMDL"); approved by State Board Order No. 27-0045. The Regional Board's order adopting this Permit was improper because the Permit is inconsistent with applicable law in that it (1) lacks individually enforceable mass effluent limits; (2) relaxes effluent limits for numerous dischargers; (3) contains inappropriate compliance schedules; and (4) requires insufficient monitoring to determine compliance with applicable effluent limitations.

# A. The Permit lacks individually enforceable mass effluent limits.

All National Pollutant Discharge Elimination System ("NPDES") permits must contain mass-based effluent limits that are fully enforceable against a permittee. Despite the Regional Board's assertions to the contrary, the Permit does not contain individually enforceable mass effluent limits. The mass limits in the permit apply only to individual dischargers when the mass of mercury discharged by an entire category of dischargers exceeds the sum of those dischargers' individual limits. This conditional application of

individual mass limits is at odds with federal law related to NPDES permitting and the purposes of this complex scheme are unclear.

Federal regulations require that permit effluent limits be established for "each outfall or discharge point" of a permitted facility. 40 C.F.R. § 122.45(a) (emphasis added); 40 C.F.R. § 123.25 (making requirements applicable to state programs). Permit effluent limits for each discharger point must be expressed in terms of mass. Id. at 122.45(f)(1). When permit limits are expressed in terms of mass and another unit of measurement, such as concentration, "the permit shall require the permittee to comply with both limitations." Id. at 122.45(f)(2). When a permittee fails to comply with any permit limitations, the Regional Board, the Environmental Protection Agency, and citizens with standing may bring an enforcement action. See 33 U.S.C. §§ 1319, 1365; Cal. Water Code § 13385. Taken as a whole, it is clear that federal law contemplates a permitting scheme in which mass effluent limits in permits apply to each and every point source and are enforceable by all parties against each and every discharger.

The Permit is inconsistent with these regulations. It establishes two types of mass limits: individual and group. The individual mass limits are based on the Waste Load Allocations ("WLA") in the Total Maximum Daily Load ("TMDL") for Mercury in the San Francisco Bay, adopted by the Regional Board on August of 2006 and approved by this State Board on July 17, 2007. Water Quality Control Plan for the San Francisco Bay Region to Establish New Mercury Water Quality Objectives and Total Maximum Daily Load and Implementation Plan for Mercury in San Francisco Bay, Order No. R2-2006-0052 (August 9, 2006) ("San Francisco Bay Mercury TMDL"); approved by State Board Order No. 27-0045. The group limits are the sum of the individual limits for a particular category—either municipal or industrial—of dischargers. The individual limits are only enforceable when the group limits are exceeded. Baykeeper submits that conditional application of federally mandated effluent limits is illegal.

Not only is the group limit regime inconsistent with federal regulations, it is arguably inconsistent with the Bay Mercury TMDL. All effluent limits in permits must be "consistent with the assumptions and requirements of any available wasteload allocation." 40 C.F.R. § 122.44(d)(1)(vii)(B). The Bay Mercury TMDL states how the Regional Board will exercise its enforcement discretion: it requires the Regional Board to "pursue enforcement actions against those individual dischargers whose mass discharges exceed their mass limits" whenever the group mass limit is exceeded. San Francisco Bay Mercury TMDL at 18, 20. The Permit, however, goes beyond codification of enforcement discretion and defines compliance with effluent limits in terms of group performance. This distinction is significant in that it makes the individual mass limits inapplicable except when the group limit is exceeded and prevents enforcement of those individual mass limits by other parties, such as the EPA and citizens with standing.

Furthermore, the Regional Board has failed to identify the purpose of this complex and arguably illegal permit. While Baykeeper recognizes the benefits of issuing a single permit for all discharges of mercury likely to cause or contribute to a violation of water quality standards, we fail to see—and the Permit fails to identify—the purpose or benefits of eliminating mass limits that are individually enforceable against each and every discharger. As we noted in our comments to the Regional Board, the Permit basically establishes a cap on the mass of mercury discharged within the Bay. Caps on the emission of pollutants are logical and effective in the air quality context of cap and trade regimes. In this situation, however, the cap is not part of a trading regime. First, as recognized in EPA's draft trading policy, bioaccumulative pollutants like mercury are unsuitable for trading. Second, the Regional Board has stated that "trading is extremely unlikely" in this context. California Regional Water Quality Control Board, San Francisco Bay Region, Response to Written Comments for the NPDES Permit for Municipal and Industrial Wastewater Discharges of Mercury to San Francisco Bay, (August 14, 2007) at 4 (hereinafter "Response to Comments"). As the group limit scheme appears unlikely to facilitate trading, its primary purpose appears to be insulating individual dischargers from liability for exceeding individual limits.

Conditioning compliance with individual limits on group performance is illegal and serves no legitimate purpose. Individual mass limits are federally mandated, provide an incentive for dischargers to ensure their processes are as efficient and effective as possible, and create necessary individual accountability.

## B. The Permit illegally relaxes effluent limits for nineteen (19) dischargers.

The Permit relaxes effluent limits for nineteen (19) of the more than sixty (60) dischargers to which the Permit applies. The Clean Water Act's anti-backsliding provision provides that in the vast majority of instances "a permit may not be renewed ... to contain effluent limitations which are less stringent than the comparable effluent limitations in the previous permit." 33 U.S.C. § 1342(o)(1). The purpose of this backsliding prohibition is to ensure consistent progress towards the Clean Water Act's ultimate goal of eliminating pollutant discharges. See 49 Fed. Reg. 37898, 38019 (September 26, 1984). To this end, exceptions to the prohibition on backsliding are limited to those enumerated in the Clean Water Act.

The Regional Board erroneously relied upon the anti-backsliding exceptions of Clean Water Act sections 303(d)(4)(1) and 402(o)(2)(B)(i) in justifying the relaxed effluent limits. Section 303(d)(4)(1) of the Clean Water Act states that effluent limits that are based on a TMDL or WLA or may be relaxed "only if the cumulative effect of all such revised effluent limitations based on [a] total maximum daily load or waste load allocation will assure the attainment of [the applicable] water quality standard." 33 U.S.C. § 303(d)(4)(1). Section 402(o)(2)(B)(i) allows for backsliding when "information is available which was not available at the time of

permit issuance and which would have justified the application of a less stringent effluent limit." However, neither of these exceptions is applicable.

Section 303(d)(4)(1) applies only to limits based on a TMDL, meaning that it authorizes backsliding *from* a permit that contains limits based on a TMDL or WLAs. Additionally, the exception only applies if the cumulative effect of all the limits will result in attainment of water quality standards. The Bay Mercury TMDL provides for an extended timeframe for water quality standards to be attained. Thus, even if all dischargers complied with the Permit's effluent limits, the cumulative effect of that compliance will not result in attainment of water quality standards. Therefore, the exception in section 303(d)(4)(1) does not apply.

Similarly, the exception in Clean Water Act section 402(o)(2)(B)(i) does not apply. Section 402(o)(2)(B)(i) allows backsliding when "information is available which was not available at the time of permit issuance and which would have justified the application of a less stringent effluent limit." 33 U.S.C. § 1342(o)(2)(B)(i). The Regional Board has mistakenly argued that the section 402 exception applies because the previous permits' limits were based on a dated mercury objective and the new objective constitutes "new information." This exception is unavailable, however, when the sole reason for a less stringent limitation is a revision in applicable regulations or standards. *Id.* Moreover, the limits in the previous permits—like those in the current Permit—were based on the dischargers' current performance and not any water quality objective. Finally, section 402(o)(3) bars relaxation of effluent limits in this situation. Section 403(o)(3) acts as a floor and prohibits relaxation of limits if it would cause the receiving waters to violate applicable state water quality standards. 33 U.S.C. § 1342(o)(3). Because the Bay is already impaired by mercury, any increase in the amount discharged by a particular discharger constitutes an exceedance of applicable water quality standards and, therefore, section 403(o)(3) prohibits backsliding from current effluent limits.

C. No evidence exists that the compliance schedules are as short as possible or are likely to lead to compliance with final effluent limits.

The compliance schedules in the Permit are unauthorized. The Clean Water Act forbids issuance of compliance schedules that delay the effective date of Water Quality Based Effluent Limitations ("WQBELs") past July 1, 1977. Baykeeper and other public interest environmental groups currently have appeals pending before this Board which raise this issue. We have included an attachment to these comments which repeats our contentions with respect to the legality of delaying the effective date of WQBELs past July 1, 1977, and hereby incorporate them by reference.

Assuming, arguendo, that the Clean Water Act authorizes compliance schedules in limited situations, the provisions in the Permit are still insufficient. The Clean Water Act defines compliance schedules as "an enforceable series of actions or operations leading to compliance with an effluent limitation..." 33 U.S.C. §1362(a). It requires that compliance

schedules include interim requirements at specified time intervals. *See* 40 C.F.R. § 122.47(a)(3); EPA Region IX California Permit Quality Review Report on Compliance Schedules (October 31, 2007). The only interim requirements in the Permit are the performance-based interim effluent limits. These limits in and of themselves are not interim requirements as contemplated by the Clean Water Act because they are not calculated to lead to compliance.

Federal regulations also require that all compliance schedules be as short as possible. 40 C.F.R. § 122.47(a)(1). The Permit's explanation of why the compliance schedules are as short as possible is unconvincing. It is wholly inappropriate to rely on some future and uncertain regulatory action—such as development of an offsets program—as evidence that the timeframes are as soon as possible. Furthermore, each Discharger's facility and operations are different so it is illogical to assume that they all need twenty years to come into compliance.

# D. The Permit should require more frequent monitoring to ensure compliance with effluent limitations.

The frequency of monitoring required by the permit appears inadequate to ensure compliance with applicable effluent limitations as it requires only monthly or even quarterly monitoring. Federal regulations require that all permits contain monitoring sufficient to assure compliance with permit limitations and to generate data that is representative of the monitored activity. 40 C.F.R. §§ 122.44(i), 122.48(a). EPA guidance specifies several factors to be considered in determining the appropriate monitoring frequency. U.S. EPA NPDES Permit Writers' Manual, EPA 833-B-96-003, pp. 119-122 (December 1996). These factors include the variability of the pollutant in the discharge, the discharger's history of compliance, and the number of monthly samples used in developing the permit limits or effluent guidelines. EPA guidance also notes that collecting ten or more samples each month generally provides the greatest statistical likelihood that monthly values will be reflective of the mean concentration of the pollutant discharged.

Nothing in the Permit or the record demonstrates that any of these factors were considered in determining the monitoring frequency established by the permit or that the frequency will generate data that is representative. According to the Regional Board, the monitoring frequency is acceptable because it is "generally comparable to the frequencies used to generate the data upon which the TMDL wasteload allocation was calculated." August Response to Comments at 17. The fact that the frequency is similar to that used to generate the data upon with the TMDL is based is irrelevant to determining whether the frequency is sufficient to be representative of each Discharger's effluent and to determine compliance.

# IV. Why the Action Aggrieves Baykeeper

Regular consumption of Bay fish is unsafe as the result of high mercury levels in the Bay. The TMDL developed to address this impairment of beneficial uses specifically requires aggressive reductions in mercury loading by all sources, including point sources. This Permit, which is intended to implement the TMDL provisions related to point source discharges of mercury, contains a number of flaws. Baykeeper, its members, and the general public are aggrieved by the Regional Board's action because the Permit is inconsistent with applicable law and could result in discharges of mercury to the Bay.

#### V. Conclusion

For the foregoing reasons, petitioners respectfully submit that the Regional Board's adoption of the NPDES permit for Municipal and Industrial Wastewater Dischargers was inappropriate, unlawful, and wholly unsupported by substantial evidence. Petitioners respectfully request that the State Board grant this petition and review the Regional Board's action. If the State Board finds that the action of the Regional Board was inappropriate and improper, Baykeeper requests that the State Board remand the permit with direction that the Regional Board issue a revised permit within a specified timeframe.

Baykeeper requests that, at this time, the State Board hold in abeyance further action on this Petition for up to two years or further notice by Baykeeper, whichever comes first.

Respectfully Submitted,

Anny Chastain, Staff Attorney

Sejal Choksi, San Francisco Baykeeper

#### Exhibits:

- A. Regional Board Order R2-2007-0077
- B. Baykeeper Comments, submitted on April 16, 2007
- C. Baykeeper Comments, submitted on September 13, 2007
- D. Delaying the Effective Date of WQBELs Contradicts the Clean Water Act

# Exhibit A

Regional Board Order R2-2007-0077

# CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN FRANCISCO BAY REGION

1515 Clay Street, Suite 1400, Oakland, CA 94612 (510) 622-2300 • Fax (510) 622-2460 http://www.waterboards.ca.gov/sanfranciscobay

ORDER No. R2-2007-0077 NPDES No. CA0038849

# WASTE DISCHARGE REQUIREMENTS FOR MUNICIPAL AND INDUSTRIAL WASTEWATER DISCHARGES OF MERCURY TO SAN FRANCISCO BAY

The following Dischargers are subject to waste discharge requirements as set forth in this Order, for the purpose of implementing the San Francisco Bay Mercury Total Maximum Daily Load (TMDL) wasteload allocations for municipal and industrial wastewater discharges to San Francisco Bay and its contiguous bay segments:

# Table 1. Discharger Information

Discharger Name of Facility Facility Address	See attached Tables 1A and 1B for Discharger Information.			
The U.S. Environmental Protection Agency (USEPA) and the Regional Water Quality Control Board have classified these discharges as either major or minor discharges as indicated in Tables 1A and 1B.				

Discharges from the discharge points identified below are subject to waste discharge requirements as set forth in this Order:

# **Table 2. Discharge Locations**

Discharge Point	Effluent Description	Discharge Point Latitude	Discharge Point Longitude	Receiving Water	
	See attached Tables 2A and 2B for Discharge Locations.				

#### **Table 3. Administrative Information**

This Order was adopted by the Regional Water Quality Control Board on:	November 1, 2007
This Order shall become effective on:	January 1, 2008 <sup>1</sup>
This Order shall expire on:	December 31, 2012

<sup>&</sup>lt;sup>1</sup>This Order becomes effective on the latter of this date or on the 1<sup>st</sup> (first) of the month after the TMDL for Mercury in San Francisco Bay becomes effective, except that if the San Francisco Bay Mercury TMDL is not approved by U.S. EPA or is approved in a form that is substantially different than was approved by the State Water Board on July 17, 2007, and implemented herein, this Order shall not become effective.

I, Bruce H. Wolfe, Executive Officer, do hereby certify that this Order with all attachments is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on the date indicated above.

Bruce H.	Wolfe,	Executive	Officer

**Table 1A. Municipal Discharger Information** 

Discharger	Name of Facility	Facility Address	Minor/ Major
American Canyon, City of	Wastewater Treatment and Reclamation Facility	151 Mezzetta Court American Canyon, CA 94503 Napa County	Major
Benicia, City of	Benicia Wastewater Treatment Plant	614 East Fifth Street Benicia, CA 94510 Solano County	Major
Burlingame, City of	Burlingame Wastewater Treatment Plant	1103 Airport Boulevard Burlingame, CA 94010 San Mateo County	Major
Calistoga, City of	Dunaweal Wastewater Treatment Plant	1185 Dunaweal Lane Calistoga, CA 94515 Napa County	Minor
Central Contra Costa Sanitary District	Central Contra Costa Sanitary District Wastewater Treatment Plant	5019 Imhoff Place Martinez, CA 94553 Contra Costa County	Major
Central Marin Sanitation Agency	Central Marin Sanitation Agency Wastewater Treatment Plant	1301 Andersen Drive San Rafael, CA 94901 Marin County	Major
Contra Costa County Sanitation District No. 5, Port Costa	Port Costa Wastewater Treatment Plant	End of Canyon Lake Drive Port Costa, CA 94569 Contra Costa County	Minor
Delta Diablo Sanitation District	Wastewater Treatment Plant	2500 Pittsburg-Antioch Highway Antioch, CA 94509 Contra Costa County	Major
East Bay Dischargers Authority; Cities of Hayward and San Leandro; Oro Loma Sanitary District; Castro Valley Sanitary District; Union Sanitary District; Livermore-Amador Valley Water Management Agency; Dublin San Ramon Services District; and City of Livermore.	EBDA Common Outfall Hayward Water Pollution Control Facility San Leandro Water Pollution Control Plant Oro Loma/Castro Valley Sanitary Districts Water Pollution Control Plant Raymond A. Boege Alvarado Wastewater Treatment Plant Livermore-Amador Valley Water Management Agency (LAVWMA) Export and Storage Facilities Dublin San Ramon Services District Wastewater Treatment Plant City of Livermore Water Reclamation Plant	EBDA Common Outfall 14150 Monarch Bay Drive San Leandro, CA 94577 Alameda County	Major
East Bay Municipal Utilities District	East Bay Municipal Utility District, Special District No. 1 Wastewater Treatment Plant	2020 Wake Avenue Oakland, CA 94607 Alameda County	Major
	Point Isabel Wet Weather Facility	2755 Isabel Street Richmond, CA 94804 Alameda County	Minor
	San Antonio Creek Wet Weather Facility	225 5 <sup>th</sup> Avenue Oakland, CA 94606 Alameda County	Minor

Discharger	Name of Facility	Facility Address	Minor/ Major
	Oakport Wet Weather Facility	5597 Oakport Street Oakland, CA 94621 Alameda County	Minor
East Brother Light Station, Inc. <sup>1</sup>	East Brother Light Station	117 Park Place Point Richmond, CA 94801 Contra Costa County	Minor
Fairfield-Suisun Sewer District	Fairfield-Suisun Wastewater Treatment Plant	1010 Chadbourne Road Fairfield, CA 94534 Solano County	Major
Las Gallinas Valley Sanitary District	Las Gallinas Valley Sanitary District Sewage Treatment Plant	300 Smith Ranch Road San Rafael, CA 94903 Marin County	Major
Marin County (Paradise Cove), Sanitary District No. 5 of	Paradise Cove Treatment Plant	3700 Paradise Drive Tiburon, CA 94920 Marin County	Minor
Marin County (Tiburon), Sanitary District No. 5 of	Wastewater Treatment Plant	2001 Paradise Drive Tiburon, CA 94920 Marin County	Minor
Millbrae, City of	Water Pollution Control Plant	400 East Millbrae Avenue Millbrae, CA 94030 San Mateo County	Major
Mt. View Sanitary District	Mt. View Sanitary District Wastewater Treatment Plant	3800 Arthur Road Martinez, CA 94553 Contra Costa County	Major
Napa Sanitation District	Soscol Water Recycling Facility	1515 Soscol Ferry Road Napa, CA 94558 Napa County	Major
Novato Sanitary District	The Novato Treatment Plant, The Ignacio Treatment Plant	Novato Treatment Plant: 500 Davidson Street Novato, CA 94945 Ignacio Treatment Plant: 445 Bel Marin Keys Blvd. Novato, CA 94945 Both in Marin County	Major, Major
Palo Alto, City of	Palo Alto Regional Water Quality Control Plant	2501 Embarcadero Way Palo Alto, CA 94303 Santa Clara County	Major
Petaluma, City of	Municipal Wastewater Treatment Plant	950 Hopper Street Petaluma, CA 94952 Sonoma County	Major
Pinole, City of	Pinole-Hercules Water Pollution Control Plant	11 Tennent Avenue Pinole, CA, 94564 Contra Costa County	Major
Rodeo Sanitary District	Rodeo Sanitary District Water Pollution Control Facility	800 San Pablo Avenue Rodeo, CA 94572 Contra Costa County	Major
Saint Helena, City of	City of St. Helena Wastewater Treatment and Reclamation Plant	1 Thomann Lane St. Helena, CA 94574 Napa County	Minor
San Francisco, City and County of, San Francisco International Airport	Mel Leong Treatment Plant, Sanitary Plant	918 Clearwater Drive San Francisco International Airport San Francisco,CA 94128	Major
San Francisco (Southeast Plant), City and County of	Southeast Water Pollution Control Plant	750 Phelps Street San Francisco, CA 94124 San Francisco County	Major

Discharger	Name of Facility	Facility Address	Minor/ Major
San Jose/Santa Clara, Cities of	San Jose/Santa Clara Water Pollution Control Plant	4245 Zanker Road San Jose, CA 95134 Santa Clara County	Major
San Mateo, City of	City of San Mateo Wastewater Treatment Plant	2050 Detroit Drive San Mateo, CA 94404 San Mateo County	Major
Sausalito-Marin City Sanitary District	Sausalito-Marin City Sanitary District Wastewater Treatment Plant	#1 Fort Baker Road Sausalito, CA 94965 Marin County	Major
Seafirth Estates Company and Property Owners within the Seafirth Estates Subdivision <sup>1</sup>	Seafirth Estates Wastewater Treatment Plant	33 Seafirth Place Tiburon, CA 94920 Marin County	Minor
Sewerage Agency of Southern Marin	Wastewater Treatment Plant	450 Sycamore Avenue Mill Valley, CA 94941 Marin County	Major
Sonoma Valley County Sanitary District	Municipal Wastewater Treatment Plant	22675 8th Street East Sonoma, CA 95476 Sonoma County	Major
South Bayside System Authority	South Bayside System Authority Wastewater Treatment Plant	1400 Radio Road Redwood City, CA 94065 San Mateo County	Major
South San Francisco and San Bruno, Cities of	South San Francisco and San Bruno Water Quality Control Plant	195 Belle Air Road South San Francisco, CA 94080 San Mateo County	Major
Sunnyvale, City of	Sunnyvale Water Pollution Control Plant	1444 Borregas Avenue, Sunnyvale, CA 94089 Santa Clara County	Major
US Naval Support Activity, Treasure Island	Wastewater Treatment Plant	681 Avenue M, Treasure island San Francisco, CA 94130-1807	Major
Vallejo Sanitation and Flood Control District	Vallejo Sanitation and Flood Control District Wastewater Treatment Plant	450 Ryder Street Vallejo, CA 94590 Solano County	Major
West County Agency (West County Wastewater District and City of Richmond Municipal Sewer District)	West County Agency Combined Outfall	601 Canal Blvd. Richmond, CA 94804 Contra Costa County	Major
Yountville, Town of Municipal Wastewater		7501 Solano Avenue Yountville, CA 94599 Napa County	Minor

<sup>&</sup>lt;sup>1</sup>This Discharger serves domestic customers but is not a municipal government agency.

Table 1B. Industrial Discharger Information

Discharger	Name of Facility	Facility Address	Minor/ Major
Industrial Wastewater Discharger	(Non-Petroleum Refinery):		
C&H Sugar Company Inc. and Crockett Community Services District	Phillip F. Meads Water Treatment Plant	830 Loring Avenue Crockett, CA 94525 Contra Costa County	Major
Crockett Cogeneration, LP and Pacific Crockett Energy, Inc.	Crockett Cogeneration Plant	550 Loring Avenue Crockett, CA 94525-1232 Contra Costa County	Minor
The Dow Chemical Company	The Dow Chemical Company	901 Loveridge Road Pittsburg, CA 94565 Contra Costa County	Major
General Chemical West, LLC <sup>2</sup>	Pittsburg Plant	501 Nichols Road Pittsburgh, CA 94565 Contra Costa County	Major
GWF Power Systems L. P., Site I	GWF -Site I (E. Third St.) Power Plant	895 East 3rd Street Pittsburg, CA 94565 Contra Costa County	Minor
GWF Power Systems L. P., Site V	GWF - Site V (Nichols Rd) Power Plant	555 Nichols Road Bay Point, CA 94565 Solano County	Minor
Pacific Gas and Electric Company (PG&E)	PG&E Shell Pond	1/2 Mile Northwest of North Broadway Street Bay Point CA 94565 Contra Costa County	Minor
Rhodia, Inc.	Sulfuric Acid Regeneration Martinez Plant	100 Mococo Road Martinez, CA 94553 Contra Costa County	Major
San Francisco City and County of, San Francisco International Airport	Mel Leong Treatment Plant, Industrial Plant	676 McDonnell Road San Francisco, CA 94128 San Francisco County	Major
Mirant Delta, LLC	Pittsburg Power Plant	Mirant Delta LLC, Pittsburg Power Plant 696 W. 10th Street Pittsburg, CA 94565 Contra Costa County	Major
Mirant Potrero LLC	Potrero Power Plant	Mirant Potrero, LLC, Potrero Power Plant 1201-A Illinois Street San Francisco, CA 94107 San Francisco County	Major
USS-Posco Industries	Pittsburg Plant	900 Loveridge Road Pittsburg, CA 94565 Contra Costa County	Major
Industrial Wastewater Discharger	(Petroleum Refinery):		
Chevron Products Company	Richmond Refinery	841 Chevron Way Richmond, CA 94801 Contra Costa County	Major
ConocoPhillips	San Francisco Refinery	1380 San Pablo Avenue Rodeo, CA 94572-1354 Contra Costa County	Major
Shell Oil Products US and Equilon Enterprises LLC	Shell Martinez Refinery	3485 Pacheco Blvd Martinez CA 94553 Contra Costa County	Major

Discharger	Discharger Name of Facility		Minor/ Major
Tesoro Refining & Marketing Co.	Golden Eagle Refinery	150 Solano Way Martinez, CA 94553 Contra Costa County	Major
Valero Refining Company	Valero Benicia Refinery	3400 East Second Street Benicia, CA 94510-1005 Solano County	Major

<sup>&</sup>lt;sup>2</sup> The Regional Water Board adopted Order R2-2007-0065 on August 8, 2007, terminating the individual discharge permit for General Chemical West LLC effective April 1, 2008. This Discharger will cease discharge no later than this date. The requirements of this Order do not apply to this Discharger if the effective date of this Order falls after the Discharger ceases to discharge.

Table 2A. Municipal Discharger Location Information

Discharger	Discharge Point(s)	Discharge Point Latitude	Discharge Point Longitude	Receiving Water
	001-S	38° 11' 3.7" N	122° 16' 39.0" W	North Slough
American Canyon, City of	003-R	38° 11′ 5.7" N	122° 16' 44.8" W	Constructed freshwater wetlands
Benicia, City of	E-001	38° 02' 30" N	122° 09' 03" W	Carquinez Strait
Burlingame, City of	E-002 <sup>(b)</sup>	37° 39' 55" N	122° 21' 41" W	Lower San Francisco Bay
Calistoga, City of	001	38° 33' 34" N	122° 33' 28" W	Napa River
•	002	38° 33' 13" N	122° 33' 40" W	Napa River
Central Contra Costa Sanitary District	001	38° 2' 44" N	122° 5' 55" W	Suisun Bay
Central Marin Sanitation Agency	001	37° 56' 54" N	122° 27' 23" W	Central San Francisco Bay
Contra Costa County Sanitation District No. 5, Port Costa	001	38° 02' 55" N	122° 10′ 56″ W	Carquinez Strait
Delta Diablo Sanitation District	E-001	38° 01' 40" N	121° 50' 14" W	New York Slough
East Bay Dischargers Authority, including City of Hayward, City of San Leandro, Oro Loma Sanitary District, Castro Valley Sanitary District, Union Sanitary District, Livermore-Amador Valley Water Management Agency (LAVWMA), Dublin San Ramon Services District, and City of Livermore	001	37° 41' 40" N	122 ° 17' 42" W	Lower San Francisco Bay
EBMUD – Main Wastewater Treatment Plant	E-001	37° 49' 2 " N	122° 20' 55" W	Central San Francisco Bay
EBMUD – Point Isabel Wet Weather Facility	E-001	37°53'43"N	122°19'24"W	Richmond Inner Harbor, part of Central San Francisco Bay
EBMUD – San Antonio Creek Wet Weather Facility	E-002	37°47'30"N	122°15'44"W	Oakland Inner Harbor, Part of Lower San Francisco Bay
East Bay Municipal Utilities District  – Oakport Wet Weather Facility	E-003	37°45'39"N	122°12'52"W	Oakland Inner Harbor, part of lower San Francisco Bay
East Brother Light Station, Inc. (a)	E-001	37° 57' 48" N	122° 25' 55" W	San Pablo Bay
-	E-001	38° 12' 33" N	122° 03' 24" W	Boynton Slough
Fairfield-Suisun Sewer District	E-002	38° 12' 52" N	122° 03' 56" W	Boynton Slough
Fairileid-Sulsuri Sewer District	E-003	38° 12' 35" N	122° 03' 29" W	Boynton Slough
	E-005	38° 14' 06" N	122° 03' 31" W	Ledgewood Creek
Las Gallinas Valley Sanitary	E-001	38° 01' 32" N	122° 30' 58" W	Miller Creek
District	E-002	38° 01' 36" N	122° 30' 45" W	Miller Creek
Marin County (Paradise Cove), Sanitary District No. 5 of	001	37 ° 53' 50" N	122 ° 27' 40" W	Central San Francisco Bay
Marin County (Tiburon), Sanitary District No. 5 of	E-001	37° 52' 12" N	122° 27' 5" W	Raccoon Strait, Central San Francisco Bay
Millbrae, City of	E-001	37° 39' 55" N	122° 21' 41" W	Lower San Francisco Bay
Mt. View Sanitary District	E-001	38° 01' 12" N	122° 05' 47" W	Peyton Slough, a tributary to Carquinez Strait
Napa Sanitation District	E-001	38° 14' 09"N	122° 17' 10" W	Napa River
Novato Sanitary District	E-003	38° 03' 36" N	122° 29' 24" W	San Pablo Bay
Palo Alto, City of	E-001	37° 27′ 30″N	122° 06' 37" W	An unnamed manmade channel, a tributary to Lower San Francisco Bay

Discharger	Discharge Point(s)	Discharge Point Latitude	Discharge Point Longitude	Receiving Water
	E-002	37° 26′ 30″ N	122° 06' 45" W	Renzel Marsh Pond, a tributary to Matedero Creek
Petaluma, City of	E-001	38° 12' 33" N	122° 34' 22" W	Petaluma River
Pinole, City of	001	38° 03' 06" N	122° 14' 55" W	San Pablo Bay
•	002	38° 00' 47" N	122° 17' 45" W	San Pablo Bay
Rodeo Sanitary District	001	38° 03' 06" N	122° 14' 55" W	San Pablo Bay
Saint Helena, City of	E-001	30° 30'10" N	122° 26' 15" W	Napa River
San Francisco, City and County of, San Francisco International Airport, Sanitary	E-002 <sup>(b)</sup>	37° 39' 55" N	122° 21' 41" W	Lower San Francisco Bay
San Francisco (Southeast Plant), City and County of	E-001	37 <sup>°</sup> 44' 58" N	122 <sup>°</sup> 22' 22" W	Lower San Francisco Bay
San Jose/Santa Clara, Cities of	E-001	37° 26′ 06″N	121° 57' 08" W	Artesian Slough, a tributary to Coyote Creek and South San Francisco Bay
San Mateo, City of	E-001	37° 34' 50" N	122° 14' 45" W	Lower San Francisco Bay
Sausalito-Marin City Sanitary District	001	37° 50' 37" N	122° 28' 3" W	Central San Francisco Bay
Seafirth Estates Company and Property Owners within the Seafirth Estates Subdivision <sup>1</sup>	001	37° 45' 08" N	122° 28' 08" W	Central San Francisco Bay
Sewerage Agency of Southern Marin	E-001	37° 52' 12" N	122° 27' 5" W	Raccoon Strait
Sonoma Valley County Sanitary District	001	38° 14' 14" N	122° 25' 51" W	Schell Slough, a tributary to the San Pablo Bay
South Bayside System Authority	001	37° 33' 40" N	122° 13' 02" W	Lower San Francisco Bay
South San Francisco and San Bruno, Cities of	E-002 <sup>(b)</sup>	37° 39' 55" N	122° 21' 41" W	Lower San Francisco Bay
Sunnyvale, City of	E-001	37° 25' 13" N	122° 1' 0" W	Moffett Channel, a tributary to Guadalupe Slough and South San Francisco Bay
US Naval Support Activity, Treasure Island	E-001	37° 49' 50" N	122° 21' 25" W	San Francisco Bay
	E-001	38° 3′ 53″ N	122 ° 13' 42" W	Carquinez Strait
Vallejo Sanitation and Flood Control District	E-002	38° 5' 23" N	122° 15' 12" W	Mare Island Strait, a tributary to Carquinez Strait
West County Agency (West County Wastewater District and City of Richmond Municipal Sewer District)	E-001	37°54'47"N	122°25'06"W	Central San Francisco Bay
Yountville, Town of	E-001	38° 24' 30"N	122°20'25''W	Napa River

<sup>(</sup>a) This Discharger serves domestic customers but is not a municipal government agency.

<sup>(</sup>b) These Dischargers share the North Bayside System Unit outfall which serves as the combined discharge point E-002 into San Francisco Bay. However, compliance with the requirements of this Order are by each Discharger at its individual compliance station specified in the Monitoring and Reporting Program, Attachment E, of this Order.

Table 2B. Industrial Discharger Location Information

Discharger	Discharge Point	Discharge Point Latitude	Discharge Point Longitude	Receiving Water	
Industrial Wastewater Discharger (Non-Petroleum Refinery):					
C&H Sugar Company Inc. and Crockett Community Services District	002	38° 03' 30" N	122° 13' 28" W	Carquinez Strait	
Crockett Cogeneration, LP and Pacific Crockett Energy, Inc.	E-001	38° 3' 22" N	122° 13' 5" W	Carquinez Strait	
The Dow Chemical Company	E-001	38° 1' 48" N	121° 51' 7" W	New York Slough	
General Chemical West, LLC <sup>©</sup>	E-001	38° 2' 48" N	121° 59' 10" W	Suisun Bay	
GWF Power Systems L. P.	E-001	38° 2' 00" N	121° 52' 15" W	New York Slough	
GWF Power Systems L. P.	E-001	38° 3' 15" N	121° 59' 15" W	New York Slough	
Pacific Gas and Electric Company (PG&E)	E-001	38° 2' 34" N	121° 57' 14" W	Suisun Bay	
Rhodia, Inc.	E-001	38° 2' 18" N	122° 7' 1" W	Suisun Bay	
San Francisco, City and County of, San Francisco International Airport, Industrial	E-002 <sup>(b)</sup>	37° 39', 55" N	122° 21' 41" W	Lower San Francisco Bay	
Mirant Delta, LLC	E-001 <sup>(a)</sup>	38° 2' 29" N	121° 53' 25" W	Suisun Bay	
Mirant Potrero LLC	E-001 <sup>(a)</sup>	37° 45' 23" N	122° 22' 52" W	San Francisco Bay	
USS-Posco Industries	E-001	38° 1' 48" N	121° 51' 32" W	Suisun Bay	
033-F08C0 industries	E-002	38° 1' 51" N	121° 51' 58" W	Suisun Bay	
<b>Industrial Wastewater Discharger</b>	(Petroleum R	Refinery):			
Chevron Products Company	E-001	37° 58' 15" N	122° 25' 45" W	San Pablo Bay	
ConocoPhillips	E-002	38° 3′ 22″ N	122° 15' 36" W	San Pablo Bay	
Shell Oil Products US and Equilon Enterprises LLC	E-001	38° 1' 56" N	122° 7' 44" W	Carquinez Strait	
Tesoro Refining & Marketing Co.	E-001	38° 2' 54" N	122° 5' 22" W	Suisun Bay	
Valero Refining Company	E-001	38° 3' 18" N	122° 7' 7" W	Suisun Bay	

<sup>(</sup>a) This Order applies to the mercury discharges from internal waste streams discharged through these discharge points, and not to the once through cooling water discharges of these discharge points.

This Discharger shares the North Bayside System Unit outfall with the Dischargers indicated in footnote (b) of Table 2A. This outfall serves as the combined discharge point E-002 into San Francisco Bay for these Dischargers. However, compliance with the requirements of this Order are by each Discharger at its individual compliance station specified in the Monitoring and Reporting Program, Attachment E, of this Order.

<sup>(</sup>c) The Regional Water Board adopted Order R2-2007-0065 on August 8, 2007, terminating the individual discharge permit for General Chemical West LLC effective April 1, 2008. This Discharger will cease discharge from this outfall no later than this date. The requirements of this Order do not apply to this Discharger if the effective date of this Order falls after the Discharger ceases to discharge.

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	The following Documents are part of this Permit, but are not physically attached as Attachment (	
	volume. They are available on the internet at <a href="https://www.waterboards.ca.gov/sanfranciscobay/">www.waterboards.ca.gov/sanfranciscobay/</a>	

- Standard Provisions and Reporting Requirements, August 1993
- Self-Monitoring Program, Part A, August 1993

# I. FACILITY INFORMATION

The following Dischargers are subject to waste discharge requirements as set forth in this Order:

**Table 4. Facility Information** 

Discharger	
Name of Facility	See Tables 1A and 1B above.
Facility Address	
Facility Contact, Title, and	
Phone	
Mailing Address	See Tables 4A and 4B below.
Type of Facility	
Facility Design Flow	

Table 4A. Additional Information on Municipal Facility (see also Table 1A)

Discharger	Facility Contact, Title, and Phone	Mailing Address	Effluent Description	Facility Design Flow (mgd)
American Canyon, City of	Robert C. Weil Public Works Director (707) 647-4550	300 Crawford Way American Canyon, CA 94503	Advanced Secondary	2.5
Benicia, City of	Jerry Gall Superintendent (707)-746-4336	Same as Facility Address	Secondary	4.5
Burlingame, City of	Phil Scott, Public Works Superintendent (650)-738-4663	501 Primrose Burlingame, CA 94010	Secondary	5.5
Calistoga, City of	Paul Wade Public Works Director (707) 942-2828 and Water Systems Super't (707) 942-2837or (707) 942-2847	414 Washington Street Calistoga, CA 94515	Secondary	0.84
Central Contra Costa Sanitary District	Douglas J. Craig Director of Operations (925) 228-9500	Same as Facility Address	Secondary	53.8
Central Marin Sanitation Agency	Robert Cole Environmental Services Manager (415) 459-1455	1301 Andersen Drive San Rafael, CA 94901	Secondary	10
Contra Costa County Sanitation District No. 5, Port Costa	Warren Lai (925) 313-2253		Secondary	0.033
Delta Diablo Sanitation District	Gary W. Darling General Manager (925) 756-1920	Same as Facility Address	Secondary	16.5
East Bay Dischargers Authority: EBDA Common Outfall Hayward Water Pollution Control Facility	Charles V. Weir General Manager (510) 278-5910	2651 Grant Avenue San Lorenzo, CA 94580	Secondary	105.8

Discharger	Facility Contact, Title, and Phone	Mailing Address	Effluent Description	Facility Design Flow (mgd)
San Leandro Water Pollution				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Control Plant				
Oro Loma/Castro Valley				
Sanitary Districts Water				
Pollution Control Plant Raymond A. Boege Alvarado				
Wastewater Treatment Plant				
Livermore-Amador Valley Water				
Management Agency				
(LAVWMA) Export and Storage				
Facilities				
Dublin San Ramon Services				
District Wastewater Treatment				
Plant				
City of Livermore Water Reclamation Plant				
East Bay Municipal Utilities District				
Main Wastewater Treatment			Secondary	120
Plant	Dave Williams	P.O. Box 24055 Oakland, CA 94623-1055	Cooondary	120
Point Isabel WWF	Director of Wastewater		Primary	100
San Antonio Creek WWF	(510) 287-1496		Primary	51
Oakport WWF			Primary	158
East Brother Light Station, Inc. <sup>1</sup>	Tom Butt President of East Bros. Light Station Inc. (510)236-7435	117 Park Place Richmond, CA 94801	Secondary	0.00025
Fairfield-Suisun Sewer District	Larry Bahr Regulatory Program Director (707) 429-8930	Same as Facility Address	Advanced Secondary	17.5
Las Gallinas Valley Sanitary District	Mark Williams District Manager (415) 472-1734	300 Smith Ranch Rd San Rafael, CA 94903-1929	Secondary	2.92
Marin County (Paradise Cove), Sanitary District No. 5 of	Robert L. Lynch Interim District Manager (415) 435-1501	P.O. Box 227 Tiburon, CA 94920	Secondary	0.08
Marin County (Tiburon), Sanitary District No. 5 of	Robert L. Lynch Interim District Manager (415) 435-1501	P.O. Box 227 Tiburon, CA 94920	Secondary	0.98
Millbrae, City of	Khee Lim City Engineer (650) 259-2347	621 Magnolia Avenue Millbrae, CA 94030	Secondary	3
Mt. View Sanitary District	David R. Contreras District Manager (925) 228-5635 ext. 32	P. O. Box 2757 Martinez, CA 94553	Advanced Secondary	3.2
Napa Sanitation District	Mr. Tim Healy Assistant General Manager/District Engineer (707) 258-6000 x508	935 Hartle Court Napa, CA 94559	Secondary	15.4

Discharger	Facility Contact, Title, and Phone	Mailing Address	Effluent Description	Facility Design Flow (mgd)
Novato Sanitary District	Beverly James General Manager (415) 892-1694 x111	500 Davidson Street Novato, CA 94945	Secondary	5.4
Palo Alto, City of	Phil Bobel Environmental Compliance Manager (650) 329-2285	2501 Embarcadero Way, Palo Alto, CA 94303	Advanced Secondary	39
Petaluma, City of	Michael J. Ban Director of Water Resources and Conservation (707) 778-4487	202 N. McDowell Blvd. Petaluma, CA 94954	Secondary	5.2
Pinole, City of	Julian Misra Plant Manager (510) 724-8963	1 Tennant Avenue, Pinole, CA, 94564	Secondary	4.06
Rodeo Sanitary District	Steven S. Beall Engineer-Manager 510-799-2970	Same as Facility Address	Secondary	1.14
Saint Helena, City of	Jonathon Goldman Director of Public Works (707) 968-2746		Secondary	0.05
San Francisco, City and County of (Airport Commission)	Mark Costanzo 676 McDonnell Road Utilities Manager San Francisco, CA (650) 642-4798 94128		Secondary	2.2
San Francisco (Southeast Plant), City and County of	Thomas Franza Assistant General Manager of Wastewater (415) 554-2475	1155 Market St., 11th Floor San Francisco, CA 94103	Secondary	150
San Jose/Santa Clara, Cities of	Dale Ihrke Deputy Director (408)-945-5198	700 Los Esteros Road San Jose, CA 95134	Advanced Secondary	167
San Mateo, City of	Mark Von Aspern Plant Manager (650) 522-7385	Same as Facility Address	Secondary	15.7
Sausalito-Marin City Sanitary District	Robert Simmons General Manager (415) 331-4712	#1 East Road P.O. Box 39 Sausalito, CA 94966-0039	Secondary	1.8
Seafirth Estates Company and Property Owners within the Seafirth Estates Subdivision <sup>1</sup>	Bonner Buehler Plant Operator (415) 388-1345	Same as Facility Address	Secondary	0.0075
Sewerage Agency of Southern Marin	Steve Danehy Manager (415) 388-2402	26 Corte Madera Ave. Mill Valley, CA 94941	Secondary	3.6
Sonoma Valley County Sanitary District	Jim Zambenini Operations Coordinator (707)975-5616	Sonoma County Water Agency P.O. Box 11628 Santa Rosa, CA 95406	Secondary	3
South Bayside System Authority	Daniel Child Manager (650) 594-8411	Same as Facility Address	Secondary	29

Discharger	Facility Contact, Title, and Phone	Mailing Address	Effluent Description	Facility Design Flow (mgd)
South San Francisco and San Bruno, Cities of	Cassie Prudhel Technical Services Director (650) 829-3840	South San Francisco- San Bruno Water Pollution Control Plant 195 Belle Air Road South San Francisco, CA 94080	Secondary	13
Sunnyvale, City of	Lorrie Gervin Division Manager (408) 730-7268  Sunnyvale Water Pollution Control Plant P.O. Box 3707 Sunnyvale, CA 94088-3707		Advanced Secondary	29.5
US Naval Support Activity, Treasure Island	Patricia A. McFadden Brac Field Team Leader San Francisco Bay Area (415) 743-4720	Navy BRAC PMOW 410 Palm Avenue, Bldg 1, Suite 161 Treasure Island, San Francisco, CA 94130-1807	Secondary	2
Vallejo Sanitation and Flood Control District	Barry Pomeroy Director of Operations and Maintenance (707) 644-8949	Same as Facility Address	Secondary	15.5
West County Agency (West County Wastewater District and City of Richmond Municipal Sewer District)	E.J. Shalaby, District Manager 510-222- 6700	2910 Hilltop Drive Richmond, CA 94806	Secondary	28.5
Yountville, Town of	Myke Praul Director of Public Works (707) 944-8851	6550 Yount Street Yountville, CA 94599	Secondary	0.55

<sup>&</sup>lt;sup>1</sup> This Discharger serves domestic customers but is not a municipal government agency.

Table 4B. Additional Information on Industrial Facility (see also Table 1B)

Discharger	Facility Contact, Title, and Phone	Mailing Address	Type of Facility	Facility Design Flow (mgd)
Industrial Wastewater Discharge	er (Non-Petroleum Refiner	y):		, ,
C&H Sugar and Crockett Community Services District	Tanya Akkerman Environmental Compliance Manager (510) 787-4352	Same as Facility Address	Sugar Cane Crystalline Industry	0.93
Crockett Cogeneration, LP and Pacific Crockett Energy, Inc.	Christopher Sargent Environmental Coordinator (510) 787-4101	Same as Facility Address	Industrial – Electrical Generation, SIC Code 4931	0.243 (Daily Discharge Rate From 2000 to 2002)
The Dow Chemical Company	Greg Dubitsky General Manager (925) 432-5154	P.O. Box 1398, Pittsburg, CA 94565	Industrial - SIC Code 2811	0.5
General Chemical West, LLC	James Craig Director of Operations (925) 458-7363	Same as Facility Address	Industrial – Chemical and Allied Products, SIC Code 2811	0.31 (Long Term Average)
GWF Power Systems L. P.	Neftali Nevarez (925) 431-1445	4300 Railroad Ave. Pittsburg, CA 94565	Industrial - SIC Code 4911	0.045 (average)
GWF Power Systems L. P.  Neftali Nevarez (925) 431-1445		4300 Railroad Ave. Pittsburg, CA 94565	Industrial - SIC Code 4911	0.047 (average)
Pacific Gas and Electric Company (PG&E)	Robert M. Gray Consulting Environmental Scientist (925) 866-5508	3400 Crow Canyon Road, M-138 San Ramon, CA 94583	Flow- through pond for habitat enhanceme nt	1 (Maximum Average Dry Weather Flow)
Rhodia, Inc.	Anthony Koo Environmental Coordinator (925) 313-8281	Same as Facility Address P.O. Box 8097	Industrial – Chemical and Allied Products, SIC Code 2891	0.779 (Potential Maximum Daily Rate)
San Francisco, City and County of, San Francisco International Airport	, San Francisco International Utility Manager		Industrial SIC Code 3721	1.7
Mirant Delta, LLC	Steve Bauman, Senior Environmental Engineer (925) 427-3381	Pittsburg Power Plant P.O. Box 192 Pittsburg, CA 94565	Electric Power generation	506
Mirant Potrero, LLC  Steve Bauman Senior Environmental Engineer (925) 427-3381		Mirant Potrero, LLC, Potrero Power Plant, 1201-A Illinois Street San Francisco, CA 94107	Electric Power generation	226
USS-Posco Industries			Industrial - SIC Code 3312	28

Discharger	Facility Contact, Title, and Phone	Mailing Address	Type of Facility	Facility Design Flow (mgd)
Industrial Wastewater Discharge	er (Petroleum Refinery):			
Chevron Products Company	Rich Sandman (510) 242-5017	Same as Facility Address	Industrial - Petroleum Refining	7.6
ConocoPhillips	Dennis Quilici Water Compliance Specialist (510) 245-4403	Same as Facility Address	Industrial – Petroleum Refining	10
Shell Oil Products US and Equilon Enterprises LLC	Steven D. Overman Senior Staff Engineer (925) 313-3281	Same as Facility Address	Industrial – Petroleum Refining	10
Tesoro Refining & Marketing Co.	Rose Pedregosa (925) 370-3625	Same as Facility Address	Industrial - Petroleum Refining	5.1
Valero Refining Company	Refining Company  Marcus Cole Senior Environmental Engineer (707) 745-7807		Industrial - Petroleum Refining	2.34

#### **II. FINDINGS**

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter Regional Water Board), finds:

A. Background. The dischargers listed in this Order in Tables 1A and 1B (collectively, Dischargers; individually, Discharger) are currently discharging pursuant to the Order Nos. and National Pollutant Discharge Elimination System (NPDES) Permit Nos. as shown in Attachment B. This Order is the mercury watershed permit and implements the wasteload allocations and implementation requirements of the mercury TMDL and implementation plan adopted by the Regional Water Board on August 9, 2006, and supersedes mercury requirements in those permits.

For the purposes of this Order, references to the "dischargers" or "permittees" in applicable federal and state laws, regulations, plans, or policy are held to be equivalent to references to the Dischargers herein.

- **B. Facility Description.** The Dischargers listed in Table 1A (Municipal Dischargers) own and operate secondary and advanced secondary wastewater treatment facilities as described in their respective Orders. The Dischargers listed in Table 1B (Industrial Dischargers) own and operate wastewater treatment facilities as described in their respective Orders. Wastewater is discharged from the Discharge points indicated in Tables 2A and 2B to San Francisco Bay and its tributaries, which are waters of the United States within the San Francisco Bay watershed. Attachment C shows a map of the Dischargers subject to this Order.
- C. Legal Authorities. This Order is issued pursuant to section 402 of the federal Clean Water Act (CWA) and implementing regulations adopted by the U.S. Environmental Protection Agency (USEPA) and chapter 5.5, division 7 of the California Water Code (commencing with section 13370). It shall serve as an NPDES permit for point source discharges of mercury from Dischargers' facilities to surface waters. This Order also serves as Waste Discharge Requirements (WDRs) pursuant to article 4, chapter 4, division 7 of the Water Code (commencing with section 13260).
- **D. Background and Rationale for Requirements**. The Regional Water Board developed the requirements in this Order based on detailed technical analyses which provide the foundation for the mercury TMDL. The Fact Sheet (Attachment F), which contains background information and rationale for Order requirements, is hereby incorporated into this Order and constitutes part of the Findings for this Order. Attachments A through G are also incorporated into this Order.
- **E. California Environmental Quality Act (CEQA).** Under Water Code section 13389, this action to adopt an NPDES permit is exempt from the provisions of CEQA, Public Resources Code sections 21100-21177.
- **G. Water Quality-Based Effluent Limitations.** Section 301(b) of the CWA and section 122.44(d) require that permits include limitations more stringent than applicable federal technology-based requirements where necessary to achieve applicable water quality standards. This Order sets forth water quality-based effluent limitations for mercury,

which implement and are consistent with the assumptions and requirements of the mercurty TMDL wasteload allocations.

H. Water Quality Control Plans. The Regional Water Board adopted a Water Quality Control Plan for the San Francisco Bay Basin, Water Quality Control Basin (Region 2) (hereinafter Basin Plan) that designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters addressed through the plan. In addition, the Basin Plan implements State Water Resources Control Board (State Water Board) Resolution No. 88-63, which established state policy that all waters, with certain exceptions, should be considered suitable or potentially suitable for municipal or domestic supply. Beneficial uses applicable to the San Francisco Bay are as follows:

Table 5. Basin Plan Beneficial Uses

Receiving Water Name	Beneficial Use(s)
San Francisco Bay and Applicable Tributaries – See individual Order Nos. (Attachment B) for specific Beneficial Uses that apply.	Agricultural Supply (AGR), Cold Freshwater Habitat (COLD), Ocean, Commercial, and Sport Fishing (COMM), Estuarine habitat (EST), Industrial Service Supply (IND), Marine Habitat (MAR), Fish Migration (MIGR), Municipal and domestic Supply (MUN), Navigation (NAV), Industrial Process Supply (PROC), Preservation of Rare and Endangered Species (RARE), Water Contact Recreation (REC1), Noncontact Water Recreation (REC2), Shellfish Harvesting (SHELL), Fish Spawning (SPWN), Warm Freshwater Habitat (WARM) Wildlife Habitat (WILD)

Requirements of this Order implement the Basin Plan.

The Regional Water Board adopted a Basin Plan Amendment on August 9, 2006, that establishes new water quality objectives for mercury, and that establishes the San Francisco Bay Mercury TMDL to attain the new mercury objectives in San Francisco Bay and contiguous bay segments. The Regional Water Board's Executive Officer made corrections on May 23, 2007, and the State Water Board approved the Basin Plan Amendment (as corrected), and new water quality objectives on July 17, 2007. The new objectives and TMDL become effective after approval by the USEPA. Elevated mercury concentrations currently exist in the tissues of fish, and methylmercury, a highly toxic form of mercury, is a persistent bioaccumulative pollutant. The mercury TMDL calls for reduction of mercury mass loadings to San Francisco Bay. Additional details regarding mercury sources to San Francisco Bay, and technical information related to the San Francisco Bay Mercury TMDL, are provided in the Fact Sheet. The purpose of this Order is to implement the San Francisco Bay Mercury TMDL wasteload allocations for Dischargers listed in Tables 1A and 1B.

I. State Implementation Policy. On March 2, 2000, the State Water Board adopted the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (State Implementation Policy or SIP). The SIP became effective on April 28, 2000, with respect to the priority pollutant criteria promulgated for California by the USEPA through the California Toxics Rule and National Toxics Rule, and to the priority pollutant objectives established by the Regional Water Board in the Basin Plan. The State Water Board adopted amendments to the

SIP on February 24, 2005, that became effective on July 13, 2005. The SIP establishes implementation provisions for priority pollutant criteria and objectives and provisions for chronic toxicity control. Requirements of this Order implement the SIP.

- J. Antidegradation Policy. Section 131.12 requires that the state water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's antidegradation policy in State Water Board Resolution No. 68-16. Resolution No. 68-16 incorporates the federal antidegradation policy where the federal policy applies under federal law. Resolution No. 68-16 requires that existing quality of waters be maintained unless degradation is justified based on specific findings. The Regional Water Board's Basin Plan implements, and incorporates by reference, both the state and federal antidegradation policies. As discussed in detail in the Fact Sheet, the permitted discharges are consistent with the antidegradation provision of 40 C.F.R. section 131.12 and State Water Board Resolution No. 68-16.
- **K. Anti-Backsliding Requirements.** Sections 402(o)(2) and 303(d)(4) of the CWA and federal regulations at title 40, Code of Federal Regulations section 122.44(l) prohibit backsliding in NPDES permits. These anti-backsliding provisions require effluent limitations in a reissued permit to be as stringent as those in the previous permit, with some exceptions where limitations may be relaxed. Because the water quality-based effluent limitations in this Order are based on a TMDL, there is no backsliding.
- L. Monitoring and Reporting. Section 122.48 requires that all NPDES permits specify requirements for recording and reporting monitoring results. Water Code sections 13267 and 13383 authorize the Regional Water Board to require technical and monitoring reports. The Monitoring and Reporting Program establishes monitoring and reporting requirements to implement federal and State requirements. This Monitoring and Reporting Program is provided in Attachment E.
- M. Standard and Special Provisions. Standard Provisions, which apply to all NPDES permits in accordance with section 122.41, and additional conditions applicable to specified categories of permits in accordance with section 122.42, are provided in Attachment D. The Dischargers must comply with all standard provisions and with those additional conditions that are applicable under section 122.42. The Regional Water Board has also included in this Order special provisions applicable to the Dischargers. A rationale for the special provisions contained in this Order is provided in the attached Fact Sheet (Attachment F).
- N. Provisions and Requirements Implementing State Law. Not applicable.
- O. Notification of Interested Parties. The Regional Water Board has notified the Dischargers and interested agencies and persons of its intent to prescribe Waste Discharge Requirements for the discharges and has provided them with an opportunity to submit their written comments and recommendations. Details of notification are provided in the Fact Sheet of this Order.
- **P. Consideration of Public Comment.** The Regional Water Board, in a public meeting, heard and considered all comments pertaining to the discharges. Details of the Public Hearing are provided in the Fact Sheet of this Order.

IT IS HEREBY ORDERED, that this Order supersedes all mercury requirements for Discharge Points listed in Table 2A and 2B that are regulated by the Order Nos. listed in Attachment B, except for applicable enforcement purposes, and, in order to meet the provisions contained in division 7 of the Water Code (commencing with section 13000) and regulations adopted thereunder, and the provisions of the federal Clean Water Act (CWA) and regulations and guidelines adopted thereunder, the Dischargers shall comply with the requirements in this Order.

## III. EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

# A. Municipal Discharger Effluent Limits

The mass and concentration of mercury in the effluent at the Discharge Points indicated in Table 4A, with compliance measured at the Monitoring Location as described in the MRP (Attachment E) for each Discharger shall not exceed the limitations in Table 6.

**Table 6. Municipal -- Individual Mercury Effluent Limitations** 

Discharger	Average Annual Effluent Limit <sup>(1,2,5)</sup> (kg/yr)	Effective in 10 years Average Annual Effluent Limit <sup>(1,2,5)</sup> (kg/yr)	Effective in 20 years Average Annual Effluent Limit <sup>(1,2,5)</sup> (kg/yr)	Average Monthly Effluent Limit <sup>(2)</sup> (µg/L)	Average Weekly Effluent Limit <sup>(2)</sup> (µg/L)
American Canyon, City of	0.12	0.095	0.095	0.025	0.027
Benicia, City of	0.088	0.088	0.088	0.066	0.072
Burlingame, City of	0.089	0.089	0.089	0.066	0.072
Calistoga, City of	0.016	0.016	0.016	0.066	0.072
Central Contra Costa Sanitary District	2.23	1.8	1.3	0.066	0.072
Central Marin Sanitation Agency	0.18	0.15	0.11	0.066	0.072
Contra Costa County Sanitation District No. 5, Port Costa	0.00072	0.00072	0.00072	0.066	0.072
Delta Diablo Sanitation District	0.31	0.25	0.19	0.066	0.072
East Bay Dischargers Authority, including City of Hayward, City of San Leandro, Oro Loma Sanitary District, Castro Valley Sanitary District, Union Sanitary District, Livermore-Amador Valley Water Management Agency (LAVWMA), Dublin San Ramon Services District, and City of Livermore	3.6	2.9	2.2	0.066	0.072

	Average	Effective in 10 years	Effective in 20 years	Average Monthly	Average Weekly
Discharger	Annual Effluent Limit <sup>(1,2,5)</sup>	Average Annual Effluent	Average Annual Effluent	Effluent Limit <sup>(2)</sup> (µg/L)	Effluent Limit <sup>(2)</sup> (µg/L)
	(kg/yr)	Limit <sup>(1,2,5)</sup> (kg/yr)	Limit <sup>(1,2,5)</sup> (kg/yr)		
East Bay Municipal		(Kg/yi)	(Kg/yi)		
Utilities District, including its Wastewater Treatment Plant and Wet Weather Facilities	2.6	2.1	1.5	0.066	0.072
East Brother Light Station, Inc. (3)	0.00001	0.000012	0.000012	0.066	0.072
Fairfield-Suisun Sewer District	0.22	0.17	0.17	0.025	0.027
Las Gallinas Valley Sanitary District	0.17	0.13	0.10	0.066	0.072
Marin County (Paradise Cove), Sanitary District No. 5 of	0.00055	0.00055	0.00055	0.066	0.072
Marin County (Tiburon), Sanitary District No. 5 of	0.0099	0.0099	0.0099	0.066	0.072
Millbrae, City of	0.052	0.052	0.052	0.066	0.072
Mt. View Sanitary District	0.034	0.034	0.034	0.025	0.027
Napa Sanitation District	0.28	0.23	0.17	0.066	0.072
Novato Sanitary District	0.079	0.079	0.079	0.066	0.072
Palo Alto, City of	0.38	0.31	0.31	0.025	0.027
Petaluma, City of	0.063	0.063	0.063	0.066	0.072
Pinole, City of	0.055	0.055	0.055	0.066	0.072
Rodeo Sanitary District	0.060	0.060	0.060	0.066	0.072
Saint Helena, City of	0.047	0.047	0.047	0.066	0.072
San Francisco , City and County of, San Francisco International Airport, Sanitary	0.032	0.032	0.032	0.066	0.072
San Francisco (Southeast Plant), City and County of	2.7	2.1	1.6	0.066	0.072
San Jose/Santa Clara, Cities of	1.0	0.80	0.80	0.025	0.027
San Mateo, City of	0.32	0.26	0.19	0.066	0.072
Sausalito-Marin City Sanitary District	0.078	0.078	0.078	0.066	0.072
Seafirth Estates Company and Property Owners within the Seafirth Estates Subdivision <sup>(3)</sup>	0.00036	0.00036	0.00036	0.066	0.072
Sewerage Agency of Southern Marin	0.13	0.10	0.076	0.066	0.072
Sonoma Valley County Sanitary District	0.041	0.041	0.041	0.066	0.072
South Bayside System Authority	0.53	0.42	0.32	0.066	0.072
South San Francisco and San Bruno, Cities of	0.29	0.24	0.18	0.066	0.072

Discharger	Average Annual Effluent Limit <sup>(1,2,5)</sup> (kg/yr)	Effective in 10 years Average Annual Effluent Limit <sup>(1,2,5)</sup> (kg/yr)	Effective in 20 years Average Annual Effluent Limit <sup>(1,2,5)</sup> (kg/yr)	Average Monthly Effluent Limit <sup>(2)</sup> (µg/L)	Average Weekly Effluent Limit <sup>(2)</sup> (µg/L)
Sunnyvale, City of	0.15	0.12	0.12	0.025	0.027
US Naval Support Activity <sup>(3)</sup> (Treasure Island)	0.026	0.026	0.026	0.066	0.072
Vallejo Sanitation and Flood Control District	0.57	0.46	0.34	0.066	0.072
West County Agency (West County Wastewater District and City of Richmond Municipal Sewer District)	0.38	0.30	0.23	0.066	0.072
Yountville, Town of	0.040	0.040	0.040	0.066	0.072
Aggregate Mass Emission Limit <sup>(1,4,5)</sup> (kg/yr)	17	14	11	Not applicable	Not applicable

#### Footnotes:

- (1) Compliance with the Average Annual Effluent Limitations is determined annually for each Municipal Discharger each calendar year, and is attained if the sum of all individual Municipal Dischargers' mercury mass emissions, calculated as described below, is not greater than the Aggregate Mass Emission Limit of 17 kg/yr (or 14 kg/yr in 10 years, or 11 kg/yr in 20 years). If the sum of all individual Municipal Dischargers' mercury mass emission(s) is greater than 17 kg/yr (or 14 kg/yr in 10 years, or 11 kg/yr in 20 years), the Municipal Discharger(s) whose mercury mass emission(s) exceed(s) its (their) individual limitation(s) in Table 6, shall be deemed to be in violation of its (their) mercury mass limitation(s). For compliance determination, mass emissions shall be determined as defined below:
  - a. The total annual aggregate mass emission shall be the sum of the individual annual mass emissions from each Municipal Discharger. The sum shall be rounded to the nearest kilogram for comparison with the 17 kg/yr.
  - b. The annual average mass emission for each Discharger shall be computed for the period January 1 through December 31, annually. If this Order becomes effective on or after April 1<sup>st</sup>, no annual average mass emission calculation shall be necessary on this first partial calendar year. In this case, annual average mass emission calculation and compliance determination shall commence on the following full calendar year and all subsequent years.
  - c. The annual average mass emission for each Discharger listed in Table 6 above shall be the sum of monthly emissions on a calendar year basis and computed as follows:

Annual Mass Emission, 
$$kg / year = \sum (Monthly Mass Emission Rates, kg / month)$$

or, for Dischargers with less frequent mercury monitoring than monthly, or if this Order becomes effective after January 1<sup>st</sup> and prior to March 1<sup>st</sup>, the Annual Mass Emission shall be computed using the arithmetic average of available monthly mass emissions as follows:

$$Annual\ Mass\ Emission, kg\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions} Calculated\right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions} Calculated\right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions} \right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions} \right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions} \right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions} \right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions} \right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions} \right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions} \right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions} \right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions} \right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmission} \right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmission} \right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmission} \right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmission} \right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmission} \right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmission} \right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmission} \right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmission} \right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmission} \right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmission} \right) *12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmi$$

where

Monthly Mass Emission, 
$$kg / mo = \left(\frac{0.003785}{N}\right) * \left(\sum_{i=1}^{N} Q_i C_i\right) * 30.5 = \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_i C_i\right)$$

and where

 $C_i$  = mercury concentration of each individual sample,  $\mu g/I$ 

 $Q_i$  = Discharger flow rate on date of sample, millions of gallons per day (mgd)

N = number of samples collected during the month

 $0.003785 = \text{conversion factor to convert } (\mu g/l)^* (mgd) \text{ into } kg/day$ 

30.5 = number of days in a standard month

0.1154425= product of (conversion factor) (number of standard days per month)

and where  $Q_i$  for intermittent Dischargers [Dischargers who do not discharge every day in a calendar month, or have no discharge for an entire month ( $Q_i = 0$ )] shall be computed as follows:

$$Q_i = \left(\frac{\sum_{d=1}^D Q_d}{30.5}\right)$$

where

Q<sub>d</sub> = is the total flow for the day when discharge occurred, million gallons

D = total number of days where discharge occurred in a month

30.5 = number of days in a standard month

- d. The Monthly Mass Emission for a Discharger who provides recycled wastewater for industrial supply, shall include the effluent discharge adjustment granted to the industrial Discharger for its recycled wastewater use as described in III.B and Provision V.C.5 of this Order. The monthly effluent discharge adjustment mass shall be reported in each Self-Monitoring Report and in the Annual Mercury Information Reporting Form Part 2 of 3 under "Comments on Data."
- (2) For compliance determination as defined in Section VI and Attachment A of this Order, the Discharger shall achieve the following, Minimum Level (ML).

**Table 7. Minimum Levels** 

Constituent	Minimum Level	Units
Mercury	0.0005	μg/L

- (3) This Discharger serves domestic customers but is not a municipal government agency. For the purpose of this Order, this Discharger is a "Municipal Discharger."
- (4) Total differs slightly from the column sum due to rounding to the nearest kilogram.
- (5) The first Annual Average Effluent Limits represent the San Francisco Bay Mercury TMDL's initial mass limits for Municipal Dischargers. In accordance with the TMDL and the compliance schedule provision that the Regional Water Board will submit to USEPA for approval, the Municipal Dischargers listed in this table have up to 10 years from the effective date of this Order to achieve the "Effective in 10 Years Annual Average Effluent Limits" and its respective Aggregate Annual Mass Emission Limit, and up to 20 years to achieve the "Effective in 20 Years Annual Average Effluent Limits" and its respective Aggregate Annual Mass Emission Limit listed in Table 6.

# **B. Industrial Discharger Effluent Limits**

The mass and concentration of mercury in the effluent at the Discharge Points indicated in Table 4B for each Discharger shall not exceed the limitations in Table 8. Monitoring locations are described in Attachment E of this Order.

Table 8. Industrial -- Individual Mercury Effluent Limitations

Permitted Entity	Average Annual Effluent Limit <sup>(1,2)</sup> (kg/yr)	Average Monthly Effluent Limit <sup>(2)</sup> (µg/L)	Maximum Daily Effluent Limit <sup>(2)</sup>	
Industrial Wastewater Discharger (Non-	Industrial Wastewater Discharger (Non-Petroleum Refinery):			
C&H Sugar Company Inc., and Crockett Community Services District	0.045	0.079	0.12	
Crockett Cogeneration, LP and Pacific Crockett Energy, Inc.	0.0047	0.079	0.12	
The Dow Chemical Company	0.041	0.079	0.12	
General Chemical West, LLC	0.21	0.079	0.12	
GWF Power Systems L. P., Site I	0.0016	0.079	0.12	
GWF Power Systems L. P., Site V	0.0025	0.079	0.12	
Pacific Gas and Electric Company	0.00063	0.079	0.12	
Rhodia, Inc.	0.011	0.079	0.12	
San Francisco Airport Commission	0.051	0.079	0.12	
Mirant Delta, LLC	0.0078	0.079	0.12	
Mirant Potrero LLC	0.0031	0.079	0.12	
USS-Posco Industries	0.045	0.079	0.12	
Industrial Wastewater Discharger (Petro	leum Refinery):			
Chevron Products Company	0.34	0.079	0.12	
ConocoPhillips	0.13	0.079	0.12	
Shell Oil Products US and Equilon Enterprises LLC	0.22	0.079	0.12	
Tesoro Refining & Marketing Co.	0.11	0.079	0.12	
Valero Refining Company	0.08	0.079	0.12	
Aggregate Mass Emission Limit <sup>(4)</sup> (kg/yr)	1.3 <sup>(4)</sup>	Not applicable	Not applicable	

#### Footnotes:

- (1) Compliance with the Average Annual Effluent Limitations is determined annually for each Industrial Discharger each calendar year, and is attained if the sum of the individual Industrial Dischargers' mercury mass emissions, calculated as described below, is not greater than the Aggregate Mass Emission Limit of 1.3 kg/yr. If the sum of all individual Industrial Dischargers' mercury mass emission(s) is greater than 1.3 kg/yr, the Industrial Discharger(s) whose mercury mass emission(s) exceed(s) its (their) individual limitation, above, shall be deemed to be in violation of its (their) mercury mass limitation(s). For compliance determination, mass emissions shall be determined as defined below:
  - a. The total annual aggregate mass emission shall be the sum of the individual annual mass emissions from each Industrial Discharger. The sum shall be rounded to the nearest kilogram for comparison with the 1.3 kg/yr.
  - b. The annual average mass emission for each Industrial Discharger shall be computed for the period January 1 through December 31, annually. If this Order becomes effective on or after April 1<sup>st</sup>, no annual average mass emission calculation shall be necessary on this first partial calendar year. In this case, annual average mass emission calculation and compliance determination shall commence on the following full calendar year and all subsequent years.

c. The annual average mass emission for each Discharger listed in Table 8 above shall be the sum of monthly emissions on a calendar year basis and computed as follows:

$$Annual\ Mass\ Emission, kg\ /\ year = \sum \left(Monthly\ Mass\ Emission\ Rates, kg\ /\ month\right)$$

Or, for Dischargers with less than monthly mercury monitoring, the Annual Mass Emission shall be computed using the arithmetic average of available monthly mass emissions as follows:

$$Annual\ Mass\ Emission, kg\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions Calculated}\right) * 12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions Calculated}\right) * 12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions Calculated}\right) * 12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions}\right) * 12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions}\right) * 12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions}\right) * 12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions}\right) * 12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions}\right) * 12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions}\right) * 12mo\ /\ year = \left(\frac{\sum Monthly MassEmission, kg\ /\ mo}{Number of Monthly MassEmissions}\right) * 12mo\ /\ year = \left(\frac{\sum Monthly MassEmission y + 12mo\ /\ year = 12mo\ /\ year$$

where

Monthly Mass Emission, 
$$kg/mo = \left(\frac{0.003785}{N}\right) * \left(\sum_{i=1}^{N} Q_i C_i\right) * 30.5 = \frac{0.1154425}{N} * \left(\sum_{i=1}^{N} Q_i C_i\right)$$

and where

 $C_i$  = mercury concentration of each individual sample,  $\mu g/l$ 

 $Q_i$  = Discharger flow rate on date of sample, millions of gallons per day (mgd)

N = number of samples collected during the month

 $0.003785 = \text{conversion factor to convert } (\mu g/l)^* (mgd) \text{ into } kg/day$ 

30.5 = number of days in a standard month

0.1154425= product of (conversion factor) (number of standard days per month)

and where  $Q_i$  for intermittent Dischargers [Dischargers who do not discharge every day in a calendar month, or have no discharge for an entire month ( $Q_i = 0$ )] shall be computed as follows:

$$Q_i = \left(\frac{\sum_{d=1}^{D} Q_d}{30.5}\right)$$

where

Q<sub>d</sub> = is the total flow for the day when discharge occurred, million gallons

D = total number of days where discharge occurred in a month

30.5 = number of days in a standard month

- d. For an Industrial Discharger who uses treated recycled wastewater for industrial supply from a Municipal Discharger named in this Order, the Industrial Discharger shall subtract from its Monthly Mass Emission in c., above, an adjustment for the recycled water used and discharged through its discharge point as provided in Provision V.C.5 of this Order. The Industrial Discharger shall report this effluent discharge adjustment mass to the Municipal Discharger that provided the recycled wastewater within 15 days following the end of the calendar month for which an adjustment is applied, and shall report the adjustment in each Self-Monitoring Report and in the Annual Mercury Information Reporting Form Part 2 of 3 under "Comments on Data."
- (2) For compliance determination as defined in Section VI and Attachment A of this Order, the Discharger shall achieve the following, Minimum Level (ML).

**Table 9. Minimum Levels** 

Constituent	Minimum Level	Units
Mercury	0.0005	μg/L

- (3) N/A means that a concentration-based limit is not applicable at this time.
- (4) Total differs slightly from the column sum due to rounding to two significant digits.
- IV. RECEIVING WATER LIMITATIONS Receiving water limitations are provided in each Discharger's individual NPDES Permits (see Attachment B).

#### V. PROVISIONS

#### A. Standard Provisions

The Dischargers shall comply with all Standard Provisions included in Attachment D of this Order, except for Standard Provisions V.D related to compliance schedules.

**B. Monitoring and Reporting Program Requirements**. The Dischargers shall comply with the Monitoring and Reporting Program (MRP), and future revisions thereto, in Attachment E of this Order. The Dischargers shall also comply with the requirements contained in Self-Monitoring Program, Part A (August 1993) (Attachment G), including any amendments thereto.

## C. Special Provisions

# 1. Triggers for Additional Mercury Control

a. Each individual Discharger shall comply with C.1.c. of this Order if its discharge exceeds any of the applicable triggers described in Tables 10 and 11.

**Table 10. Triggers for Municipal Dischargers** 

Type of Trigger	Average Monthly	Maximum Daily
Concentration for Secondary Treatment Plants	0.041 μg/L	0.065 μg/L
Concentration for Advanced Secondary Treatment Plants	0.011 μg/L	0.021 μg/L
Mass Emission	Individual annual mass emission limit, as depicted in Table 6, above, and computed as a 12-month running average, as shown in C.1.b., below.	

**Table 11. Triggers for Industrial Dischargers** 

Type of Trigger	Average Monthly	Maximum Daily
Concentration	0.037 μg/L	0.062 μg/L
Mass Emission	Individual annual mass emission limit, as depicted in Table 8, above, and computed as a 12-month running average, as shown in C.1.b., below.	

b. The running 12-month average mass emission shall be computed monthly for each calendar month as follows:

$$(12 - month Running Average, kg) = (Current Mass Emission, kg) + \sum (Previous 11 months' mass emissions, kg)$$

where the current mass emission is the emission for the current calendar month computed as shown in III.A. above.

c. Each Discharger who exceeds any of the applicable triggers listed in Table 10 or 11, above, shall comply with the following action requirements:

Table 12. Action Plan for Trigger Exceedance

Task	Deadline
i. Accelerated Sampling. As soon as the Discharger becomes aware of the exceedance, resample within 48 hours and commence weekly sampling (or more frequent than weekly) for a total of at least 6 new samples. If all 6 new samples show mercury levels below the triggers, return to routine sampling. If during the accelerated sampling, (1) any of the new samples are above the maximum daily trigger, or (2) the monthly average of the new samples is above the monthly trigger, or (3) the 12-month running average mass is above the mass trigger, then proceed with action plan for mercury reduction and continue sampling monthly until the observed mercury discharge is below the trigger levels for 3 consecutive months, at which point the Discharger shall complete the reporting of this exceedance as required by Tasks ii. and ix, and return to routine monitoring, and discontinue efforts under Task iii, below.	See deadlines in task description.
<b>ii.</b> Report Trigger Exceedance. The Discharger shall report to the Regional Water Board any exceedance of trigger levels in the cover letter of its Self-Monitoring Report, and the status of its plans and actions to accelerate monitoring and/or develop and implement an action plan for mercury reduction.	In the Self-Monitoring Report due 30 days after the end of the monitoring period.
iii. Action Plan for Mercury Reduction. Develop, submit, and implement an Action Plan that (1) evaluates the cause <sup>1</sup> of the trigger exceedance(s); (2) evaluates the effectiveness of existing pollution prevention or pretreatment programs and methods for preventing future exceedances; (3) evaluates the feasibility and effectiveness of technology enhancements to improve treatment plant performance; and (4) evaluates other measures for preventing future exceedances. In addition, the Discharger shall identify in the Action Plan mercury reduction measures it will take along with an implementation schedule for those measures to correct current and prevent future trigger exceedances.	Within 130 days of the initial trigger exceedance

<sup>1</sup> Possible causes of exceedances include (but are not limited to) changes in reclamation, increases in the number of sewer connections, increases in infiltration and inflow (I/I), changes in the type or number of industrial, commercial, or residential sources, changes in the raw material used in manufacturing processes, changes in treatment system operation, or factors beyond the Discharger's control, such as a natural disaster, vandalism, illegal dumping, or extreme flood event.	
<b>iv.</b> <i>Annual Reporting.</i> The Discharger shall provide a status of its mercury reduction efforts in the annual Self-Monitoring Report. Additionally, as causes and corrective actions are identified, the Discharger shall amend or supplement its Action Plan as appropriate. Such changes shall be reported to the Regional Water Board in the Discharger's Annual Self-Monitoring Report.	Annually due February 1 <sup>st</sup> of each year until the Discharger demonstrates compliance with trigger levels for a continuous 3-month period of sampling.

# 2. Mercury Source Control Program for Municipal Dischargers

The Dischargers in Table 1A shall develop, implement, and document cost-effective pretreatment/pollution prevention reduction strategies for dental offices to manage and reduce the amount of mercury amalgam that is discharged from dental offices into the public wastewater collection systems in accordance with the following:

- a. The target for this program is that 85% of dental offices that generate mercury amalgam waste in the region will be participating in an amalgam program within 5 years after the effective date of this Order. Within 2 years of the effective date of this Order, the municipal wastewater Dischargers (Table 1A) shall develop and begin to implement a dental amalgam program with the goal of achieving the target within five years.
- b. The municipal wastewater Dischargers in Table 1A shall estimate the dental amalgam collected (and describe the basis for its estimation) and describe any other mercury pollution prevention programs that are implemented and maintained by individual municipal wastewater dischargers. The municipal wastewater Dischargers shall provide this information to the Regional Water Board no later than June 30, 2012. The municipal wastewater Dischargers may collaborate to provide this information in a single report to satisfy this requirement for the entire group.

# 3. Additional Special Studies for Adaptive Management

The Dischargers in Tables 1A and 1B, or their agent(s), shall submit a work plan within one year of the effective date of this Order, to include an implementation schedule for the following activities:

 a. Conduct or cause to be conducted studies aimed at better understanding mercury fate, transport, the conditions under which mercury methylation occurs, and biological uptake in San Francisco Bay, its contiguous segments, and tidal areas; and b. Conduct or cause to be conducted studies to evaluate the presence of, or potential for, local effects on fish, wildlife, and rare and endangered species in the vicinity of wastewater discharges.

The work plan shall include annual progress reports, due April 1<sup>st</sup> to the Regional Water Board. This progress report shall be combined with any group compliance reporting required by IV.C. of the Monitoring and Reporting Program, Attachment E of this Order.

## 4. Risk Reduction Programs

The Dischargers shall develop and implement or participate in effective programs to reduce mercury-related risks to humans and quantify the resulting risk reductions from these activities. The activities may be performed by a third party if the Dischargers wish to provide funding for this purpose. This requirement may be satisfied by a combination of related efforts through the Regional Monitoring Program or other similar collaborative efforts.

The risk reduction activities shall include investigating ways to address public health impacts of mercury in San Francisco Bay/Delta fish, including activities that reduce actual and potential exposure of health impacts to those people and communities most likely to be affected by mercury in San Francisco Bay-caught fish, such as subsistence fishers and their families. Such strategies should include public participation in developing effective programs in order to ensure their effectiveness. The Dischargers may include studies needed to establish effective exposure reduction activities and risk communication messages as part of their planning.

Within 1 year of the effective date of this Order, the Dischargers shall submit, or cause to be submitted, a progress report describing their efforts in developing risk management and reduction programs, with community participation and input.

Within 2 years of the effective date of this Order, the Dischargers shall submit, or cause to be submitted, a report describing the details of their risk management and reduction programs, the community participation process that was involved in developing such programs, any third parties involved in implementing the programs, and a plan for evaluating the programs' effectiveness. The report shall include an implementation schedule with implementation beginning within 3 years of the effective date of this Order. The Dischargers shall describe the progress of their efforts in the Annual Self-Monitoring Report required by IV.B.2.b. (or IV.C, Optional Group Compliance Reporting) in Attachment E of this Order.

# Mercury Discharge Adjustment for Recycled Wastewater Use by Industrial Dischargers

When an industrial Discharger named on Table 1B of this Order uses recycled wastewater from a municipal Discharger named on Table 1A of this Order, the industrial Discharger may, at its option, apply an adjustment (hereinafter Adjustment) to its mercury mass emission or discharge concentration when determining compliance with its concentration and mass limits specified in III.B. of this Order.

The Adjustment shall be based on measured influent mercury levels from the recycled wastewater in accordance with the following:

- a. The Industrial Discharger shall sample and analyze the influent recycled wastewater and the effluent discharge at least monthly. Influent sampling shall include measurement of daily flow volume for the entire duration that Adjustments are applied. Influent sampling shall occur at an appropriate influent sampling station as identified in the Discharger's individual permit.
- b. The Industrial Discharger shall determine the time interval between introduction of a given constituent of concern in the influent recycled water and the first appearance of the constituent in the final effluent. The basis for this determination must be included in any calculation of Adjustment.
- c. Calculation of Mercury Discharge Adjustment.

### Concentration Adjustment

Influent concentration multiplied by total influent recycled water flow volume for that monitoring interval will yield an influent mass, which is valid for that monitoring interval. This influent mass is then divided by the total effluent flow volume for the time interval following the appropriate time lag described in 5.b. above, for that monitoring period to give a concentration Adjustment that will apply for the monitoring interval. The monitoring interval is the time between sampling days. For example, monthly sampling yields a one month monitoring interval. An example follows:

ex. Mercury is monitored monthly. The lag time is Y days.

Step 1: {(Influent concentration of mercury in Recycled Wastewater) – (Influent concentration of mercury in potable water)} x (Total Influent Volume of Recycled Wastewater for the month) = (Influent mass of mercury from Recycled Wastewater)

Step 2: (Influent mass) ÷ (Total effluent discharge volume for the 30-day period, Y days after influent sampled) = (Concentration Adjustment to be subtracted from concentration of mercury in the discharge, valid for that month)

#### Mass Adjustment

Influent concentration multiplied by total influent recycled water flow volume for that monitoring interval will yield an influent mass, which is valid for that monitoring interval. This influent mass is divided by the number of days in that monitoring period to give a mass Adjustment that will apply for the monitoring interval. The monitoring interval is the time between sampling days. For example, monthly sampling yields a one month monitoring interval. A schematic example follows:

ex. Constituent B is monitored monthly. The lag time is Y days.

Step 1: {(Influent concentration of mercury in Recycled Wastewater) – (Influent concentration of mercury in potable water)} x (Total Influent Volume of Recycled Wastewater for the month) = (Influent mass of mercury in Recycled Wastewater)

Step 2: (Influent mass) ÷ (30.5, the number of days in a standard month) = (Mass Emission Adjustment to be subtracted from monthly mass emission for that month)

- d. If an Industrial Discharger opts to apply a Mass Emission Adjustment, the Regional Water Board shall transfer that Adjustment to the mass emission for the corresponding discharge interval from the Municipal Discharger who is the producer and source of the recycled wastewater. If this reverse Adjustment results in an adjusted mass discharge level above both of the following criteria, then, that Municipal Discharger is in violation of its Annual Average Effluent Limit and is subject to enforcement action by the Regional Water Board:
  - The sum of the adjusted mass discharge levels from the Industrial Discharger and the Municipal Discharger exceeds the sum of the individual Average Annual Effluent Limits for these two Dischargers; and
  - ii. The adjusted mass discharge levels from the Municipal Discharger results in an aggregate mass emission from all Municipal Dischargers that exceeds the Aggregate Mass Emission Limit for Municipal Dischargers.

### 6. Reopener Provision

This Order may be reopened for modification, or revocation and reissuance, as a result of the following:

- a. if the State Water Board has not established a pollutant offset program that can be implemented within 20 years of the effective date of this Order; or
- b. if there is modification of the San Francisco Bay Mercury TMDL implementation provisions.

#### VI. COMPLIANCE DETERMINATION

Compliance with the effluent limitations contained in section IV of this Order will be determined as specified below:

#### A. General.

Compliance with effluent limitations for mercury shall be determined using sample reporting protocols defined in the MRP and Attachment A of this Order. For purposes of reporting and administrative enforcement by the Regional and State Water Boards, a Discharger shall be deemed out of compliance with effluent limitations if the concentration of the priority pollutant in the monitoring sample is greater than the effluent limitation and greater than or equal to the reporting level (RL).

## B. Multiple Sample Data.

When determining compliance with an average monthly effluent limit (AMEL) for priority pollutants and more than one sample result is available, the Dischargers shall compute the arithmetic mean unless the data set contains one or more reported determinations of "Detected, but Not Quantified" (DNQ) or "Not Detected" (ND). In those cases, the Discharger shall compute the median in place of the arithmetic mean in accordance with the following procedure:

- The data set shall be ranked from low to high, ranking the reported ND determinations lowest, DNQ determinations next, followed by quantified values (if any). The order of the individual ND or DNQ determinations is unimportant.
- 2. The median value of the data set shall be determined. If the data set has an odd number of data points, then the median is the middle value. If the data set has an even number of data points, then the median is the average of the two values around the middle unless one or both of the points are ND or DNQ, in which case the median value shall be the lower of the two data points where DNQ is lower than a value and ND is lower than DNQ.

#### ATTACHMENT A - DEFINITIONS

### Arithmetic Mean (μ)

Also called the average, is the sum of measured values divided by the number of samples. For ambient water concentrations, the arithmetic mean is calculated as follows:

Arithmetic mean =  $\mu$  =  $\Sigma x$  / n where:  $\Sigma x$  is the sum of the measured ambient water concentrations, and n is the number of samples.

### **Average Monthly Effluent Limitation (AMEL)**

The highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

## **Average Weekly Effluent Limitation (AWEL)**

The highest allowable average of daily discharges over a calendar week (Sunday through Saturday), calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week

**Detected, but Not Quantified (DNQ)** are those sample results less than the RL, but greater than or equal to the laboratory's MDL.

### **Maximum Daily Effluent Limitation (MDEL)**

The highest allowable daily discharge of a pollutant, over a calendar day (or 24-hour period). For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the arithmetic mean measurement of the pollutant over the day.

#### Median

The middle measurement in a set of data. The median of a set of data is found by first arranging the measurements in order of magnitude (either increasing or decreasing order). If the number of measurements (n) is odd, then the median =  $X_{(n+1)/2}$ . If n is even, then the median =  $(X_{n/2} + X_{(n/2)+1})/2$  (i.e., the midpoint between the n/2 and n/2+1).

**Method Detection Limit (MDL)** is the minimum concentration of a substance that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero, as defined in title 40 of the Code of Federal Regulations, Part 136, Attachment B, revised as of July 3, 1999.

**Minimum Level (ML)** is the concentration at which the entire analytical system must give a recognizable signal and acceptable calibration point. The ML is the concentration in a sample that is equivalent to the concentration of the lowest calibration standard analyzed by a specific analytical procedure, assuming that all the method specified sample weights, volumes, and processing steps have been followed.

**Not Detected (ND)** are those sample results less than the laboratory's MDL. **Pollutant Minimization Program (PMP)** 

PMP means waste minimization and pollution prevention actions that include, but are not limited to, product substitution, waste stream recycling, alternative waste management methods, and education of the public and businesses. The goal of the PMP shall be to reduce all potential sources of a priority pollutant(s) through pollutant minimization (control) strategies, including pollution prevention measures as appropriate, to maintain the effluent concentration at or below the water quality-based effluent limitation. Pollution prevention measures may be particularly appropriate for persistent bioaccumulative priority pollutants where there is evidence that beneficial uses are being impacted. The Regional Water Board may consider cost effectiveness when establishing the requirements of a PMP. The completion and implementation of a Pollution Prevention Plan, if required pursuant to Water Code section 13263.3(d), shall be considered to fulfill the PMP requirements.

#### **Pollution Prevention**

Pollution Prevention means any action that causes a net reduction in the use or generation of a hazardous substance or other pollutant that is discharged into water and includes, but is not limited to, input change, operational improvement, production process change, and product reformulation (as defined in Water Code section 13263.3). Pollution prevention does not include actions that merely shift a pollutant in wastewater from one environmental medium to another environmental medium, unless clear environmental benefits of such an approach are identified to the satisfaction of the State or Regional Water Board.

Reporting Level (RL) is the ML (and its associated analytical method) chosen by the Discharger for reporting and compliance determination from the MLs included in this Order. The MLs included in this Order correspond to approved analytical methods for reporting a sample result that are selected by the Regional Water Board either from Appendix 4 of the SIP in accordance with section 2.4.2 of the SIP or established in accordance with section 2.4.3 of the SIP. The ML is based on the proper application of method-based analytical procedures for sample preparation and the absence of any matrix interferences. Other factors may be applied to the ML depending on the specific sample preparation steps employed. For example, the treatment typically applied in cases where there are matrix-effects is to dilute the sample or sample aliquot by a factor of ten. In such cases, this additional factor must be applied to the ML in the computation of the RL.

**Total Maximum Daily Load (TMDL)** is a calculation of the maximum amount of a pollutant that a waterbody can receive and still meet water quality standards, and an allocation of that amount to the pollutant's sources.

## ATTACHMENT B - EXISTING ORDER NOS. AND NPDES PERMIT NOS.

## **Municipal Dischargers:**

Discharger	NPDES Permit No.	Existing Order No. <sup>1</sup>	Existing Order Adoption Date	Existing Order Expiration Date
American Canyon, City of	CA0038768	R2-2006-0036	6/14/06	6/30/11
Benicia, City of	CA0038091	01-096 <sup>2</sup>	8/15/01	7/31/06
Burlingame, City of	CA0037788	R2-2002-0027 <sup>2</sup>	2/27/02	1/31/07
Calistoga, City of	CA0037966	R2-2006-0066	10/11/06	2/28/10
Central Contra Costa Sanitary District	CA0037648	R2-2007-008	1/23/07	3/31/12
Central Marin Sanitation Agency	CA0038628	R2-2007-007	1/23/07	3/31/12
Contra Costa County Sanitation District No. 5, Port Costa	CA0037885	R2-2003-0009 <sup>2</sup>	1/22/03	12/31/07
Delta Diablo Sanitation District	CA0038547	R2-2003-0114	12/03/03	1/01/09
East Bay Dischargers Authority	CA0037869	R2-2006-0053	8/09/06	9/30/11
Union S.D. Wet Weather Outfall	CA0038733	R2-2004-0002	1/21/04	2/28/09
Union C.D. Howward March	CA0038636	R2-2006-0031	5/10/06	5/09/11
Union S.D. Hayward Marsh			8/09/06	9/30/11
Dublin San Ramon Services District	CA0037613 CA0038008	R2-2006-0054		
City of Livermore  LAVWMA Wet Weather Outfall		R2-2006-0055	8/09/06	9/30/11
	CA0038679 CA0037702	R2-2006-0026 01-072 <sup>2</sup>	4/12/06	6/08/11 5/31/06
East Bay Municipal Utilities Dist. WWTP		R2-2005-0047	6/20/01	
EBMUD Wet Weather Facilities	CA0038440		9/21/05	3/31/10
East Brother Light Station, Inc.	CA0038806	R2-2004-0079	9/15/04	11/30/09
Fairfield-Suisun Sewer District	CA0038024	R2-2003-0072	8/20/03	9/30/08
Las Gallinas Valley Sanitary District	CA0037851	R2-2003-0108	12/03/03	11/30/08
Marin County (Paradise Cove), Sanitary District No. 5 of	CA0037427	R2-2006-0037	6/14/06	6/30/11
Marin County (Tiburon), Sanitary District No. 5 of	CA0037753	R2-2002-0097 <sup>2</sup>	9/18/02	10/31/07
Millbrae, City of	CA0037532	01-143	11/28/01	10/31/06
Mt. View Sanitary District	CA0037770	R2-2006-0063	9/13/06	5/17/10
Napa Sanitation District	CA0037575	R2-2005-0008	4/20/05	3/31/10
Novato Sanitary District	CA0037958	R2-2004-0093	11/17/04	12/31/09
Palo Alto, City of	CA0037834	R2-2003-0078	8/20/03	9/30/08
Petaluma, City of	CA0037810	R2-2005-0058	10/19/05	10/20/10
Pinole, City of	CA0037796	R2-2007-0024	3/14/07	5/31/12
Rodeo Sanitary District	CA0037826	R2-2006-0062	9/13/06	11/30/11
Saint Helena, City of	CA0038016	R2-2005-0025	6/15/05	4/27/10
San Francisco, City and County of, San Francisco International Airport, Sanitary	CA0038318	R2-2007-0058	8/8/07	9/30/12
San Francisco (Southeast Plant), City and County of	CA0037664	R2-2002-0073 <sup>2</sup>	6/19/02	5/31/07
San Jose/Santa Clara, Cities of	CA0037842	R2-2003-0085	6/17/03	9/30/08
San Mateo, City of	CA0037541	01-071 <sup>2</sup>	6/20/01	5/31/06
Sausalito-Marin City Sanitary District	CA0038067	R2-2007-0054	8/8/07	9/30/12
Seafirth Estates Company and Property Owners with the Seafirth Estates Subdivision	CA0038893	R2-2006-0082	12/13/06	2/29/12
Sewerage Agency of Southern Marin	CA0037711	R2-2007-0057	8/8/07	9/30/12
Sonoma Valley County Sanitary District	CA0037800	R2-2002-0046 <sup>2</sup>	3/20/02	2/28/07
South Bayside System Authority	CA0038369	R2-2007-0006	1/23/07	3/31/12
South San Francisco and San Bruno, Cities of	CA0038130	R2-2003-0010	1/22/03	3/31/08
Sunnyvale, City of	CA0037621	R2-2003-0079	8/20/03	9/30/08
المارين	0,10001021		5,25	0,00,00

Discharger	NPDES Permit No.	Existing Order No. <sup>1</sup>	Existing Order Adoption Date	Existing Order Expiration Date
US Naval Support Activity, Treasure Island	CA0110116	R2-2004-0036	5/19/04	12/30/09
Vallejo Sanitation and Flood Control District	CA0037699	R2-2006-0056	8/09/06	9/30/11
West County Agency (West County Wastewater District and City of Richmond Municipal Sewer District)	CA0038539	01-144 <sup>2</sup>	11/28/01	10/31/06
Yountville, Town of	CA0038121	R2-2004-0017	3/17/04	4/30/09

<sup>&</sup>lt;sup>1</sup> The orders shown are for the primary permit reissuance and do not include permit amendments.

## **Industrial Dischargers:**

Discharger	NPDES Permit No.	Existing Order No.	Existing Order Adoption Date	Existing Order Expiration Date
Industrial Wastewater Discharger (No	n-Petroleum Refi	nery):		
C&H Sugar and Crockett Community Services District	CA0005240	R2-2007-0032	4/11/07	5/31/2012
Crockett Cogeneration, LP and Pacific Crockett Energy, Inc.	CA0029904	R2-2004-0026	5/19/04	6/30/09
The Dow Chemical Company	CA0004910	01-142	11/28/01	10/31/06
General Chemical West, LLC	CA0004979	R2-2002-0071 <sup>3</sup>	6/19/02	5/31/07
GWF Power Systems L. P. Site I	CA0029106	R2-2005-0018	5/18/05	4/19/10
GWF Power Systems L. P. Site V	CA0029122	R2-2005-0019	5/18/05	4/19/10
Pacific Gas and Electric Company (PG&E)	CA0030082	R2-2006-0010	2/8/06	3/31/11
Rhodia, Inc.	CA0006165	R2-2004-0042	6/16/04	7/31/09
San Francisco, City and County of, San Francisco International Airport, Industrial	CA0028070	R2 2007-0060	8/8/08	9/30/12
Mirant Delta, LLC	CA0004880	R2-2002-0072	6/19/02	5/31/07
Mirant Potrero LLC	CA0005657	R2-2006-0032	5/10/06	12/31/08
USS-Posco Industries	CA0005002	R2-2006-0029	5/10/06	6/30/11
Industrial Wastewater Discharger (Pe	troleum Refinery)	:		
Chevron Products Company	CA0005134	R2-2006-0035	6/14/06	6/13/11
ConocoPhillips	CA0005053	R2-2005-0030	6/15/05	8/31/10
Shell Oil Products US and Equilon Enterprises LLC	CA0005789	R2-2006-0070	10/11/06	10/31/11
Tesoro Refining & Marketing Co.	CA0004961	R2-2005-0041	9/21/05	11/30/10
Valero Refining Company	CA0005550	R2-2002-0112	10/16/02	11/30/07

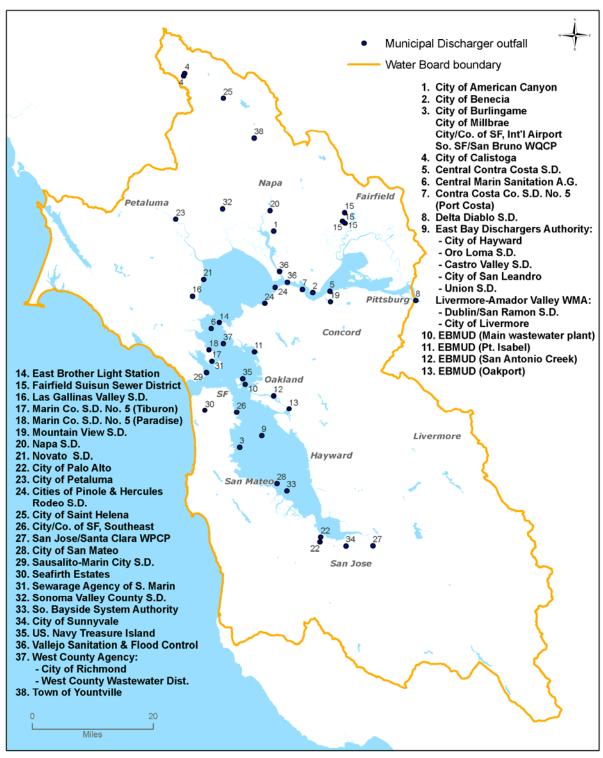
<sup>&</sup>lt;sup>2</sup> The individual permits specified in these orders are scheduled for reissuance in 2007 and the first calendar quarter of 2008, prior to the effective date of this Order.

<sup>&</sup>lt;sup>2</sup> The individual permits specified in these orders are scheduled for reissuance in 2007 and the first calendar quarter of 2008, prior to the effective date of this Order.

The Regional Water Board adopted Order R2-2007-0065 on August 8, 2007, terminating the individual discharge permit for General Chemical West LLC effective April 1, 2008.

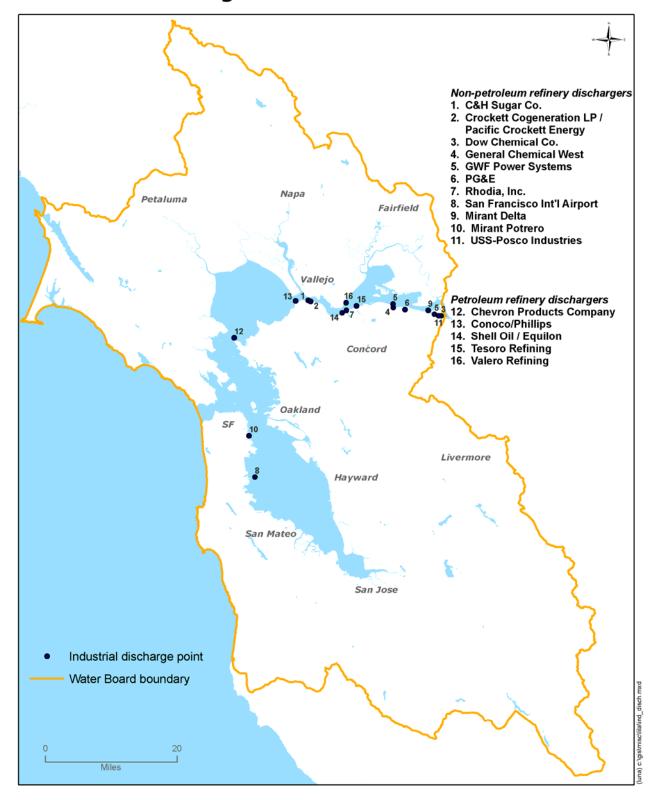
## ATTACHMENT C - MAP OF MUNICIPAL AND INDUSTRIAL DISCHARGERS

## **Municipal Discharger outfall locations**



Attachment C – Map C-1

## **Industrial Discharge Outfalls**



Attachment C – Map C-1

#### ATTACHMENT D - STANDARD PROVISIONS

#### I. STANDARD PROVISIONS - PERMIT COMPLIANCE

## A. Duty to Comply

- 1. The Dischargers must comply with all of the conditions of this Order. Any noncompliance constitutes a violation of the Clean Water Act (CWA) and the California Water Code and is grounds for enforcement action, for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. (40 C.F.R. § 122.41(a).)
- 2. The Dischargers shall comply with effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions, even if this Order has not yet been modified to incorporate the requirement. (40 C.F.R. § 122.41(a)(1).)

## B. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a Discharger in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Order. (40 C.F.R. § 122.41(c).)

## C. Duty to Mitigate

The Dischargers shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this Order that has a reasonable likelihood of adversely affecting human health or the environment. (40 C.F.R. § 122.41(d).)

## D. Proper Operation and Maintenance

The Dischargers shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Dischargers to achieve compliance with the conditions of this Order. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems that are installed by a Discharger only when necessary to achieve compliance with the conditions of this Order. (40 C.F.R. § 122.41(e).)

## **E. Property Rights**

1. This Order does not convey any property rights of any sort or any exclusive privileges. (40 C.F.R. § 122.41(g).)

2. The issuance of this Order does not authorize any injury to persons or property or invasion of other private rights, or any infringement of state or local law or regulations. (40 C.F.R. § 122.5(c).)

## F. Inspection and Entry

The Dischargers shall allow the Regional Water Board, State Water Board, United States Environmental Protection Agency (USEPA), and/or their authorized representatives (including an authorized contractor acting as their representative), upon the presentation of credentials and other documents, as may be required by law, to (40 C.F.R. § 122.41(i); Wat. Code, § 13383):

- Enter upon the Discharger's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order (40 C.F.R. § 122.41(i)(1));
- 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order (40 C.F.R. § 122.41(i)(2));
- 3. Inspect and photograph, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order (40 C.F.R. § 122.41(i)(3)); and
- 4. Sample or monitor, at reasonable times, for the purposes of assuring Order compliance or as otherwise authorized by the CWA or the Water Code, any substances or parameters at any location. (40 C.F.R. § 122.41(i)(4).)

### G. Bypass

#### 1. Definitions

- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. (40 C.F.R. § 122.41(m)(1)(i).)
- b. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities, which causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. (40 C.F.R. § 122.41(m)(1)(ii).)
- 2. Bypass not exceeding limitations. The Dischargers may allow any bypass to occur which does not cause exceedances of effluent limitations, but only if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions listed in Standard Provisions Permit Compliance I.G.3, I.G.4, and I.G.5 below. (40 C.F.R. § 122.41(m)(2).)

- 3. Prohibition of bypass. Bypass is prohibited, and the Regional Water Board may take enforcement action against a Discharger for bypass, unless (40 C.F.R. § 122.41(m)(4)(i)):
  - a. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage (40 C.F.R. § 122.41(m)(4)(i)(A));
  - b. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance (40 C.F.R. § 122.41(m)(4)(i)(B)); and
  - c. The Discharger submitted notice to the Regional Water Board as required under Standard Provisions Permit Compliance I.G.5 below. (40 C.F.R. § 122.41(m)(4)(i)(C).)
- 4. The Regional Water Board may approve an anticipated bypass, after considering its adverse effects, if the Regional Water Board determines that it will meet the three conditions listed in Standard Provisions Permit Compliance I.G.3 above. (40 C.F.R. § 122.41(m)(4)(ii).)

#### 5. Notice

- a. Anticipated bypass. If a Discharger knows in advance of the need for a bypass, it shall submit a notice, if possible at least 10 days before the date of the bypass. (40 C.F.R. § 122.41(m)(3)(i).)
- Unanticipated bypass. A Discharger shall submit notice of an unanticipated bypass as required in Standard Provisions - Reporting V.E below (24-hour notice). (40 C.F.R. § 122.41(m)(3)(ii).)

#### H. Upset

Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the Discharger. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation. (40 C.F.R. § 122.41(n)(1).)

1. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of Standard Provisions – Permit Compliance I.H.2 below are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review. (40 C.F.R. § 122.41(n)(2).).

- 2. Conditions necessary for a demonstration of upset. A Discharger who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that (40 C.F.R. § 122.41(n)(3)):
  - a. An upset occurred and that the Discharger can identify the cause(s) of the upset (40 C.F.R. § 122.41(n)(3)(i));
  - b. The permitted facility was, at the time, being properly operated (40 C.F.R. § 122.41(n)(3)(ii));
  - c. The Discharger submitted notice of the upset as required in Standard Provisions Reporting V.E.2.b below (24-hour notice) (40 C.F.R. § 122.41(n)(3)(iii)); and
  - d. The Discharger complied with any remedial measures required under Standard Provisions – Permit Compliance I.C above. (40 C.F.R. § 122.41(n)(3)(iv).)
- Burden of proof. In any enforcement proceeding, the Discharger seeking to establish the occurrence of an upset has the burden of proof. (40 C.F.R. § 122.41(n)(4).)

#### II. STANDARD PROVISIONS - PERMIT ACTION

#### A. General

This Order may be modified, revoked and reissued, or terminated for cause. The filing of a request by a Discharger for modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any Order condition. (40 C.F.R. § 122.41(f).)

## B. Duty to Reapply

If the Dischargers wish to continue an activity regulated by this Order after the expiration date of this Order, the Dischargers must apply for and obtain a new permit. (40 C.F.R. § 122.41(b).)

#### C. Transfers

This Order is not transferable to any person except after notice to the Regional Water Board. The Regional Water Board may require modification or revocation and reissuance of the Order to change the name of a Discharger and incorporate such other requirements as may be necessary under the CWA and the Water Code. (40 C.F.R. § 122.41(I)(3); § 122.61.)

#### III. STANDARD PROVISIONS - MONITORING

- **A.** Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. (40 C.F.R. § 122.41(j)(1).)
- **B.** Monitoring results must be conducted according to test procedures under Part 136 or, in the case of sludge use or disposal, approved under Part 136 unless otherwise specified in Part 503 unless other test procedures have been specified in this Order. (40 C.F.R. § 122.41(j)(4); § 122.44(i)(1)(iv).)

#### IV. STANDARD PROVISIONS - RECORDS

A. Except for records of monitoring information required by this Order related to a Discharger's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by Part 503), the Discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Order, and records of all data used to complete the application for this Order, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Regional Water Board Executive Officer at any time. (40 C.F.R. § 122.41(j)(2).)

## B. Records of monitoring information shall include:

- 1. The date, exact place, and time of sampling or measurements (40 C.F.R. § 122.41(j)(3)(i));
- The individual(s) who performed the sampling or measurements (40 C.F.R. § 122.41(j)(3)(ii));
- 3. The date(s) analyses were performed (40 C.F.R. § 122.41(j)(3)(iii));
- 4. The individual(s) who performed the analyses (40 C.F.R. § 122.41(j)(3)(iv));
- 5. The analytical techniques or methods used (40 C.F.R. § 122.41(j)(3)(v)); and
- 6. The results of such analyses. (40 C.F.R. § 122.41(j)(3)(vi).)

# C. Claims of confidentiality for the following information will be denied (40 C.F.R. § 122.7(b)):

- 1. The name and address of any permit applicant or Discharger (40 C.F.R. § 122.7(b)(1)); and
- 2. Permit applications and attachments, permits and effluent data. (40 C.F.R. § 122.7(b)(2).)

#### V. STANDARD PROVISIONS - REPORTING

## A. Duty to Provide Information

The Dischargers shall furnish to the Regional Water Board, State Water Board, or USEPA within a reasonable time, any information which the Regional Water Board, State Water Board, or USEPA may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order or to determine compliance with this Order. Upon request, the Dischargers shall also furnish to the Regional Water Board, State Water Board, or USEPA copies of records required to be kept by this Order. (40 C.F.R. § 122.41(h); Wat. Code, § 13267.)

## **B. Signatory and Certification Requirements**

1. All applications, reports, or information submitted to the Regional Water Board, State Water Board, and/or USEPA shall be signed and certified in accordance with Standard Provisions – Reporting V.B.2, V.B.3, V.B.4, and V.B.5 below. (40 C.F.R. § 122.41(k).)

**PLUS** 

For Industrial Dischargers that are corporations:

2. All permit applications shall be signed by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. (40 C.F.R. § 122.22(a)(1).)

For Industrial Dischargers that are partnerships or sole proprietorships:

2. All permit applications shall be signed by a general partner or the proprietor, respectively. (40 C.F.R. § 122.22(a)(2).)

For a municipality, State, federal, or other public agency:

2. All permit applications shall be signed by either a principal executive officer or ranking elected official. For purposes of this provision, a principal executive officer of a federal agency includes: (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of USEPA). (40 C.F.R. § 122.22(a)(3).).

### PLUS, for all Dischargers:

- 3. All reports required by this Order and other information requested by the Regional Water Board, State Water Board, or USEPA shall be signed by a person described in Standard Provisions – Reporting V.B.2 above, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
  - a. The authorization is made in writing by a person described in Standard Provisions Reporting V.B.2 above (40 C.F.R. § 122.22(b)(1));
  - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.) (40 C.F.R. § 122.22(b)(2)); and
  - c. The written authorization is submitted to the Regional Water Board and State Water Board. (40 C.F.R. § 122.22(b)(3).)
- 4. If an authorization under Standard Provisions Reporting V.B.3 above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Standard Provisions Reporting V.B.3 above must be submitted to the Regional Water Board and State Water Board prior to or together with any reports, information, or applications, to be signed by an authorized representative. (40 C.F.R. § 122.22(c).)
- 5. Any person signing a document under Standard Provisions Reporting V.B.2 or V.B.3 above shall make the following certification:
  - "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." (40 C.F.R. § 122.22(d).)

## C. Monitoring Reports

- 1. Monitoring results shall be reported at the intervals specified in the Monitoring and Reporting Program (Attachment E) in this Order. (40 C.F.R. § 122.22(I)(4).)
- 2. Monitoring results must be reported on a Discharge Monitoring Report (DMR) form or forms provided or specified by the Regional Water Board or State Water Board for reporting results of monitoring of sludge use or disposal practices. (40 C.F.R. § 122.41(I)(4)(i).)
- 3. If a Discharger monitors any pollutant more frequently than required by this Order using test procedures approved under Part 136 or, in the case of sludge use or disposal, approved under Part 136 unless otherwise specified in Part 503, or as specified in this Order, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Regional Water Board. (40 C.F.R. § 122.41(I)(4)(ii).)
- Calculations for all limitations, which require averaging of measurements, shall utilize an arithmetic mean unless otherwise specified in this Order. (40 C.F.R. § 122.41(I)(4)(iii).)

### D. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Order, shall be submitted no later than 14 days following each schedule date. (40 C.F.R. § 122.41(I)(5).)

## E. Twenty-Four Hour Reporting

- 1. The Dischargers shall report any noncompliance that may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the Dischargers become aware of the circumstances. A written submission shall also be provided within five (5) days of the time a Discharger becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. (40 C.F.R. § 122.41(I)(6)(i).)
- 2. The following shall be included as information that must be reported within 24 hours under this paragraph (40 C.F.R. § 122.41(I)(6)(ii)):
  - a. Any unanticipated bypass that exceeds any effluent limitation in this Order. (40 C.F.R. § 122.41(I)(6)(ii)(A).)
  - b. Any upset that exceeds any effluent limitation in this Order. (40 C.F.R. § 122.41(I)(6)(ii)(B).)

3. The Regional Water Board may waive the above-required written report under this provision on a case-by-case basis if an oral report has been received within 24 hours. (40 C.F.R. § 122.41(I)(6)(iii).)

## F. Planned Changes

The Dischargers shall give notice to the Regional Water Board as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required under this provision only when (40 C.F.R. § 122.41(I)(1)):

1. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in section 122.29(b) (40 C.F.R. § 122.41(l)(1)(i)); or

## For Municipal Dischargers:

2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are not subject to effluent limitations in this Order. (40 C.F.R. § 122.41(I)(1)(ii).)

#### For Industries:

- 2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in this Order nor to notification requirements under section 122.42(a)(1) (see Additional Provisions—Notification Levels VII.A.1). (40 C.F.R. § 122.41(I)(1)(ii).)
- 3. The alteration or addition results in a significant change in the Discharger's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan. (40 C.F.R.§ 122.41(I)(1)(iii).)

#### G. Anticipated Noncompliance

The Dischargers shall give advance notice to the Regional Water Board or State Water Board of any planned changes in the permitted facility or activity that may result in noncompliance with General Order requirements. (40 C.F.R. § 122.41(I)(2).)

## H. Other Noncompliance

The Dischargers shall report all instances of noncompliance not reported under Standard Provisions – Reporting V.C, V.D, and V.E above at the time monitoring reports are submitted. The reports shall contain the information listed in Standard Provision – Reporting V.E above. (40 C.F.R. § 122.41(I)(7).)

#### I. Other Information

When a Discharger becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Regional Water Board, State Water Board, or USEPA, the Discharger shall promptly submit such facts or information. (40 C.F.R. § 122.41(I)(8).)

#### VI. STANDARD PROVISIONS - ENFORCEMENT

**A.** The Regional Water Board is authorized to enforce the terms of this permit under several provisions of the Water Code, including, but not limited to, sections 13385, 13386, and 13387.

#### VII. ADDITIONAL PROVISIONS – NOTIFICATION LEVELS

## A. Non-Municipal Facilities

Existing manufacturing, commercial, mining, and silvicultural Dischargers shall notify the Regional Water Board as soon as they know or have reason to believe (40 C.F.R. § 122.42(a)):

- 1. That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant that is not limited in this Order, if that discharge will exceed the highest of the following "notification levels" (40 C.F.R. § 122.42(a)(1)):
  - a. 100 micrograms per liter (µg/L) (40 C.F.R. § 122.42(a)(1)(i));
  - b. 200 µg/L for acrolein and acrylonitrile; 500 µg/L for 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol; and 1 milligram per liter (mg/L) for antimony (40 C.F.R. § 122.42(a)(1)(ii));
  - c. Five (5) times the maximum concentration value reported for that pollutant in the Report of Waste Discharge (40 C.F.R. § 122.42(a)(1)(iii)); or
  - d. The level established by the Regional Water Board in accordance with section 122.44(f). (40 C.F.R. § 122.42(a)(1)(iv).)
- 2. That any activity has occurred or will occur that would result in the discharge, on a non-routine or infrequent basis, of any toxic pollutant that is not limited in this Order, if that discharge will exceed the highest of the following "notification levels" (40 C.F.R. § 122.42(a)(2)):

- a. 500 micrograms per liter (μg/L) (40 C.F.R. § 122.42(a)(2)(i));
- b. 1 milligram per liter (mg/L) for antimony (40 C.F.R. § 122.42(a)(2)(ii));
- c. Ten (10) times the maximum concentration value reported for that pollutant in the Report of Waste Discharge (40 C.F.R. § 122.42(a)(2)(iii)); or
- d. The level established by the Regional Water Board in accordance with section 122.44(f). (40 C.F.R. § 122.42(a)(2)(iv).)

## **B. Publicly-Owned Treatment Works (POTWs)**

All POTWs shall provide adequate notice to the Regional Water Board of the following (40 C.F.R. § 122.42(b)):

- 1. Any new introduction of pollutants into the POTW from an indirect discharger that would be subject to sections 301 or 306 of the CWA if it were directly discharging those pollutants (40 C.F.R. § 122.42(b)(1)); and
- 2. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of adoption of the Order. (40 C.F.R. § 122.42(b)(2).)
- 3. Adequate notice shall include information on the quality and quantity of effluent introduced into the POTW as well as any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW. (40 C.F.R. § 122.42(b)(3).)

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## ATTACHMENT E - MONITORING AND REPORTING PROGRAM

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## ATTACHMENT E - MONITORING AND REPORTING PROGRAM (MRP)

The Code of Federal Regulations section 122.48 requires that all NPDES permits specify monitoring and reporting requirements. Water Code Sections 13267 and 13383 also authorize the Regional Water Quality Control Board (Regional Water Board) to require technical and monitoring reports. This MRP establishes monitoring and reporting requirements which implement the federal and California regulations.

#### I. GENERAL MONITORING PROVISIONS

- A. The Dischargers shall comply with the MRP for this Order as adopted by the Regional Water Board, and with all of the Self-Monitoring Program, Part A, adopted August 1993 (SMP, Attachment G of this Order). The MRP and SMP may be amended by the Executive Officer pursuant to US EPA regulations 40 CFR122.62, 122.63, and 124.5. If any discrepancies exist between the MRP and SMP, the MRP prevails.
- **B.** Sampling is required during the entire year when discharging. All analyses shall be conducted using current US EPA methods, or that have been approved by the US EPA Regional Administrator pursuant to 40 CFR 136.4 and 40 CFR 136.5, or equivalent methods that are commercially and reasonably available, and that provide quantification of sampling parameters and constituents sufficient to evaluate compliance with applicable effluent limits. Equivalent methods must be more sensitive than those specified in 40 CFR 136, must be specified in the permit, and must be approved for use by the Executive Officer, following consultation with the State Water Board's Quality Assurance Program. The Regional Water Board will find a Discharger in violation of the limitation if the discharge concentration exceeds the effluent limitation and the Reporting Level for the analysis for that constituent.
- C. Minimum Levels. For compliance monitoring, analyses shall be conducted using the lowest commercially available and reasonably achievable detection levels. The objective is to provide quantification of constituents sufficient to allow evaluation of observed concentrations with respect to the Minimum Levels given below. All Minimum Levels are expressed as µg/L approximately equal to parts per billion (ppb).

According to the SIP, method-specific factors can be applied. In such cases, this additional factor must be applied in the computation of the Reporting Level. Application of such factors will alter the Reporting Level from the Minimum Level for the analysis. Dischargers are to instruct laboratories to establish calibration standards so that the Minimum Level value is the lowest calibration standard. At no time is a Discharger to use analytical data derived from extrapolation beyond the lowest point of the calibration curve. The table below indicates the highest minimum level that the Discharger's laboratory must achieve for calibration purposes.

Constituent	Minimum Level	Units
Mercury	0.0005	μg/L

#### II. MONITORING LOCATIONS

The Dischargers shall establish the following monitoring locations to demonstrate compliance with the effluent limitations, discharge specifications, and other requirements in this Order:

**Table E-1. Monitoring Station Locations** 

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
Discharge point indicated in individual NPDES permits for discharge from the Discharger's wastewater treatment plant (often but not always E-001)	Location as indicated in individual NPDES permits for mercury or other toxic pollutants  For C&H Sugar Company, location is M-002.  For Mirant Delta, LLC, locations are E-001B through to and including E-001I.  For Mirant Potrero, LLC, location is E-001C.  For San Francisco International Airport, location is EFF-001A for both its Sanitary and Industrial Plants (or at the Discharger's option, the locations are at EFF-001-Ind for the Industrial Plant and EFF-001-San for the Sanitary Plant for monitoring compliance with the different concentration based limits for each facility). Discharge flow rates shall be at location EFF-001-Ind for the Industrial Plant, and EFF-001-San for the Sanitary Plant.	As described in individual NPDES permits for mercury or other toxic pollutants

#### III. EFFLUENT MONITORING REQUIREMENTS

The Dischargers shall monitor mercury in effluent as shown in Table E-2 below and reported on the form included in the next section:

**Table E-2. Mercury Monitoring Requirements** 

Parameter	Units <sup>1</sup>	Sample Type <sup>2</sup>	Minimum Sampling Frequency <sup>3,4</sup>
			Monthly for Major Dischargers (see Table 1A and 1B)
			Quarterly for Minor Dischargers (see Table 1A and
Total mercury <sup>5</sup>	μg/L	C-24 or Grab <sup>6</sup>	1B), except as otherwise indicated below
Total mercury	µg/L	0-24 01 Glab	Annually for
			East Brothers Light Station Inc.
			Marin County Sanitary District No. 5, Paradise Cove
			Seafirth Estates Company and Property Owners
			Quarterly for Dischargers with Average Annual Mass
			Limits greater than or equal to 0.08 kg/yr
Methylmercury <sup>7</sup>	μg/L	C-24 or Grab	Semi-annually for Dischargers with Average Annual
Metrylinercury	ethylinercury µg/L	C-24 01 G1ab	Mass Limits between 0.08 and 0.04 kg/yr
			Annually for Dischargers with Average Annual Mass
			Limits less than or equal to 0.04 kg/yr

(1) Unit Abbreviation:  $\mu g/L = micrograms per liter$ 

(2) <u>Sample Type</u>: C-24 = 24-hour composite. 24-hour composites may be made up of discrete grab samples collected over a 24-hour period, or may be collected using automatic compositing equipment.

If using compositing equipment, the Discharger shall implement all feasible ultra clean techniques to reduce sample contamination (such as use of ultra clean Teflon tubing).

- (3) <u>Intermittent or seasonal dischargers</u> shall collect samples during those months for which a discharge occurs.
- (4) Monitoring frequency: Monitoring frequency may be increased subsequent to reissuance of this Order.
- (5) <u>Total mercury:</u> The Dischargers shall use ultra-clean sampling (USEPA 1669), and ultra-clean analytical methods (USEPA 1631) for total mercury monitoring.
- (6) <u>Grab Samples</u> shall be collected coincident with composite samples collected for the analysis of other regulated parameters.
- (7) Methylmercury: These Dischargers shall use ultra-clean sampling (USEPA 1669) to collect unfiltered methylmercury samples, and ultraclean analytical methods (USEPA 1630/1631, Revision E) with a method detection limit of 0.02 ng/L.

#### IV. REPORTING REQUIREMENTS

## A. General Monitoring and Reporting Requirements

The Dischargers shall comply with all Standard Provisions (Attachments D and G) related to monitoring, reporting, and recordkeeping.

### B. Individual Reporting in Self Monitoring Reports (SMRs)

## 1. Compliance with CIWQS

At any time during the term of this permit, the State or Regional Water Board may notify the Dischargers to electronically submit Self-Monitoring Reports (SMRs) using the State Water Board's California Integrated Water Quality System (CIWQS) Program Web site (http://www.waterboards.ca.gov/ciwqs/index.html). Until such notification is given, the Dischargers shall submit hard copy SMRs. The CIWQS Web site will provide additional directions for SMR submittal in the event there will be service interruption for electronic submittal.

## 2. Due Dates and Information Required for SMRs

### a. Report Data with Routine SMR

The Dischargers shall submit mercury data collected as part of this Order in the regular monthly or quarterly Self Monitoring Reports (SMR) required in each Discharger's individual permit. As required in each Discharger's individual permit, for those Dischargers required to report monthly, monthly reports shall be due no later than 30 days after the end of each calendar month. For those Dischargers required to report quarterly in its individual permit, quarterly reports are due 30 days after the end of each calendar quarter.

(i) For Industrial Dischargers claiming an effluent credit for recycled water use pursuant to Provision V.C.5, the amount of credit claimed for that month shall be reported monthly to the Municipal Discharger that supplied the recycled water. The reporting from the Industrial Discharger to the Municipal Discharger shall be completed no later than 15 days following the end of the

calendar month. The municipal and industrial Dischargers shall then include this information in their respective monthly (or quarterly) and annual SMRs.

(ii) If a Discharger monitors mercury more frequently than required by this Order, the results of this monitoring shall be included in the calculations and reporting of the data submitted in the SMR.

### b. Annual SMR and Required Forms

Annual SMRs are due February 1 following each calendar year. Each Discharger shall provide its mercury information on the forms shown at the end of this section (pages E-9 through E-13) as an attachment to the cover letter for the Discharger's annual SMR required by its individual permit. Furthermore, by February 1, each Discharger shall send an additional copy of its completed forms to the Regional Water Board by email (in PDF), mail, or fax. This duplicate reporting is necessary to facilitate the Regional Water Board's compilation of the data for compliance determination with the group annual average limitation from all affected Dischargers. Dischargers not required by their individual permits to submit annual SMRs shall still submit annual SMRs for mercury as described in this subsection. The reporting required in this subsection "b." is waived only if the Discharge participates in the Group Compliance Reporting described in IV.C, below.

## 3. Monitoring Periods

Monitoring periods for all required monitoring shall be completed according to the following schedule:

Sampling Frequency	Monitoring Period Begins On	Monitoring Period
Monthly	Effective date of permit	1 <sup>st</sup> day of calendar month through last day of calendar month
Quarterly	Effective date of permit	January 1 through March 31 April 1 through June 30 July 1 through September 30 October 1 through December 31
Semiannually	Effective date of permit	January 1 through June 30 July 1 through December 31
Annually	Effective date of permit	January 1 through December 31

4. Reporting of ML or RL, DNQ, and ND, and Establishing Calibration Standards
The Dischargers shall report with each sample result the applicable Minimum Level
(ML) or Reporting Level (RL) and the current Method Detection Limit (MDL), as
determined by the procedure in 40 CFR Part 136.

The Dischargers shall report the results of analytical determinations for the presence of chemical constituents in a sample using the following reporting protocols:

a. Sample results greater than or equal to the RL shall be reported as measured by the laboratory (i.e., the measured chemical concentration in the sample).

b. Sample results less than the RL, but greater than or equal to the laboratory's MDL, shall be reported as "Detected, but Not Quantified," or DNQ. The estimated chemical concentration of the sample shall also be reported.

For the purposes of data collection, the laboratory shall write the estimated chemical concentration next to DNQ as well as the words "Estimated Concentration" (may be shortened to "Est. Conc."). The laboratory may, if such information is available, include numerical estimates of the data quality for the reported result. Numerical estimates of data quality may be percent accuracy (<u>+</u> a percentage of the reported value), numerical ranges (low to high), or any other means considered appropriate by the laboratory.

- c. Sample results less than the laboratory's MDL shall be reported as "Not Detected," or ND.
- d. Dischargers are to instruct laboratories to establish calibration standards so that the ML value (or its equivalent if there is differential treatment of samples relative to calibration standards) is the lowest calibration standard. At no time is a Discharger to use analytical data derived from *extrapolation* beyond the lowest point of the calibration curve.

## 5. Reporting Data in Tabular Format

The Dischargers shall arrange all reported data in a tabular format. The data shall be summarized to clearly illustrate whether the facility is operating in compliance with effluent limitations. The Dischargers are not required to duplicate the submittal of data that is entered in a tabular format within CIWQS. When electronic submittal of data is required and CIWQS does not provide for entry into a tabular format within the system, the Dischargers shall electronically submit the data in a tabular format as an attachment.

#### 6. Cover Letter for SMR

Each Discharger shall attach a cover letter to the SMR. The information contained in the cover letter shall clearly identify violations of the WDRs and any exceedances of trigger levels; discuss corrective actions taken or planned; and the proposed time schedule for corrective actions. Identified violations must include a description of the requirement that was violated and a description of the violation or trigger level exceedance.

#### 7. Signatory and Certification of SMR

SMRs must be submitted to the Regional Water Board, signed and certified as required by the Standard Provisions (Attachment D), to the address listed below:

Executive Officer
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612
ATTN: NPDES Wastewater Division

## 8. Optional Electronic Reporting System

The Dischargers have the option to submit all monitoring results in an electronic reporting format approved by the Executive Officer. The Electronic Reporting System (ERS) format includes, but is not limited to, a transmittal letter, summary of violation details and corrective actions, and transmittal receipt.

## C. Optional Group Compliance Reporting

As an alternative to IV.B.2.b. above, each Discharger at its option, may submit its annual mercury discharge forms to a regional entity, such as the

 Bay Area Clean Water Agencies (BACWA) for Dischargers listed in Table 4A, and non-petroleum refinery Industrial Dischargers listed in Table 4B (provided these Industrial Dischargers have made prior arrangement with BACWA to report on their behalf), of the Order, at

**BACWA** 

P.O. Box 24055, MS 702

Oakland, CA 94623

ATTN: SF Bay Mercury Watershed Wastewater Permit Compliance

Reporting

or

 Western State Petroleum Association (WSPA) for Petroleum Refinery Industrial Dischargers listed in Table 4B of the Order, at

**WSPA** 

1415 L Street, Suite 600

Sacramento, CA 95814

ATTN: SF Bay Mercury Watershed Wastewater Permit Compliance Reporting

If the Discharger chooses this alternative, it shall indicate in the cover letter of its annual report due to the Regional Water Board on February 1<sup>st</sup> of its intent and commitment to report with a group by February 15<sup>th</sup>. **Each Discharger shall provide its mercury information on the form shown at the end of this section** by February 15<sup>th</sup> so as to allow the respective regional entity to provide compiled information to the Regional Water Board as indicated below. If the Discharger fails to meet its commitment, it will be subject to enforcement action by the Regional Water Board for failure to meet the February 1<sup>st</sup> reporting deadline and requirement.

## 1. Compliance Report of Mercury Discharge Levels

By April 1<sup>st</sup> of each year, the Dischargers' group will submit a report describing the group's mercury discharges for the preceding calendar year. The report will contain the following:

 Summary tables depicting each Discharger's annual and monthly flows, mercury concentrations, and mercury mass loads, calculated as described

in Effluent Limitations III.A. and B. of the Order, and the sum of all the individual Dischargers' annual mass loads (if the Dischargers' group did not receive completed forms from the each group member, the sum should be left blank along with blank rows or columns left in the summary tables those group members);

- An analysis of the effluent data, including discussion of all statistical methods used;
- · A discussion of apparent trends in mercury loading of each Discharger; and
- An electronic file containing all the data, in a format compatible with the Regional Water Board's Electronic Reporting System or California Integrated Water Quality System.
- Copies of the completed forms from each Discharger who provided forms.

### 2. Report on Mercury Reduction Efforts

By April 1<sup>st</sup> of each year, the Dischargers' group will submit a report describing their mercury reduction efforts. This report will contain the following:

- a. A discussion of events that may have affected mercury loading for the preceding calendar year; and
- b. A description of mercury source control projects, planned or under way, including where applicable, but not limited to:
  - i. descriptions of project activities; and
  - ii. implementation schedules for planned source control projects; and
  - iii. estimates of mercury mass loads that can be avoided through program activities unrelated to normal treatment, including recycled water delivered, summarized by activity if appropriate.

## San Francisco Bay Regional Water Quality Control Board

# Annual Mercury Information Reporting Form Part 1 of 3 – Basic Information

Complete and return all 3 parts of this form to the Regional Water Board no later than February 1<sup>st</sup> in your Annual Self Monitoring Report, to report on the previous calendar year. You must also mail, fax, or email PDF file of a second copy of this completed form to the address below. In lieu of this dual reporting to the Regional Water Board, you may complete one set of these forms and report through a group in accordance with MRP Section IV.C. (see page E-6).

San Francisco Bay Regional Water Quality Control Board 1515 Clay Street, Suite 1400 Oakland, CA 94612

Attention: SF Bay Mercury Watershed Wastewater Permit Compliance Reporting

Email: MercuryWasteWaterShed@waterboards.ca.gov

Fax: (510) 622-2460

Name of Discharger:				
Individual NPDES Permit Number(s):				
Discharger Contact Person:				
Contact Person Phone Number:				
Contact Person Email:				
Calendar Year Reporting: (Example: for data collected in 2009, enter "20"	009")			
I certify under penalty of law that this document and all attachments are prepared my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. E on my inquiry of the person or persons who managed the system, or those person directly responsible for gathering the information, the information submitted is, to best of my knowledge and belief, true, accurate, and complete. I am aware that the are significant penalties for submitting false information, including the possibility of and imprisonment for knowing violations.	Based ns the here			
Signature of Responsible Discharger Representative Date				
Print Name and Title				

## San Francisco Bay Regional Water Quality Control Board

# Annual Mercury Information Reporting Form Part 2 of 3 – Mercury Data

Discharg	er:			
Calendar	Year Rep	· ———	Monitoring Station:  Jse separate Part 2 sheets for mu	<del></del>
this bo part (P	x to certify t art 2) of the	rting data to the optional Electronic hat its mercury data in ERS are con Annual Mercury Information Report still be shown on this sheet.	omplete and correct, if it wishes to	o skip this
Month	Sample Date	Effluent Flow (mgd)  Enter the effluent flow for only the	Mercury Concentration (μg/L)	Average Monthly Mass Load (kg/mo)
	Date	days when mercury was sampled.	Only fill in boxes for month(s) of for month(s) not sampled. Onlessampled even	y provide total mass load if
Jan				
Feb				
Mar				
Apr				
May				
Jun				
Jul				
Aug				
Sep				
Oct				

Note: if more than one sample in a month at the same station, report flows and concentrations for all sample days above, and calculate average monthly mass load in accordance with the methodology described in Effluent Limitations III of this Order.

## Comments on data (if any):

Nov Dec Total

Average

For Dischargers claiming an effluent credit for recycled wastewater use pursuant to Provision V.C.5 of the Order, please indicate the credit(s) that will be applied to the mass loads listed above, and show on the back of this sheet the credit calculation and basis (use additional sheets if necessary). For Dischargers who provide or use recycled wastewater tor industrial supply pursuant to Provision V.C.5 of the Order, please indicate any adjustments that have been applied to the mass loads listed above.

## San Francisco Bay Regional Water Quality Control Board

# Annual Mercury Information Reporting Form Part 3 of 3 – Source Control Information

Di	Discharger:				
Ca	alendar Year Reporting:				
1.	Discussion of any events that affected mercury loading for the calendar year:				
2.	Description of mercury source control projects underway or planned. Each project shall include: (1) description of project activities; (2) implementation schedule(s); and (3) estimates of mercury mass loads that can be avoided through program activities unrelated to normal treatment, summarized by activity if appropriate.  a. Projects completed or underway during the reporting year:				
	<ul> <li>b. Projects planned for the near future (include information about expected schedule):</li> </ul>				

## D. Discharge Monitoring Reports (DMRs)

- 1. As described in Section X.B.1 above, at any time during the term of this permit, the State or Regional Water Board may notify the Dischargers to electronically submit self-monitoring reports. Until such notification is given, major Dischargers (See Tables 1A and 1B in cover section of permit) shall submit mercury results as part of their discharge monitoring reports (DMRs) in accordance with the requirements described below.
- 2. DMRs must be signed and certified as required by the standard provisions (Attachment D). Each Discharger shall submit the original DMR and one copy of the DMR to the address listed below:

Standard Mail	FedEx/UPS/ Other Private Carriers
State Water Resources Control Board	State Water Resources Control Board
Division of Water Quality	Division of Water Quality
c/o DMR Processing Center	c/o DMR Processing Center
PO Box 100	1001 I Street, 15 <sup>th</sup> Floor
Sacramento, CA 95812-1000	Sacramento, CA 95814

3. All discharge monitoring results must be reported on the official US EPA preprinted DMR forms (EPA Form 3320-1). Forms that are self-generated will not be accepted unless they follow the exact same format of EPA Form 3320-1.